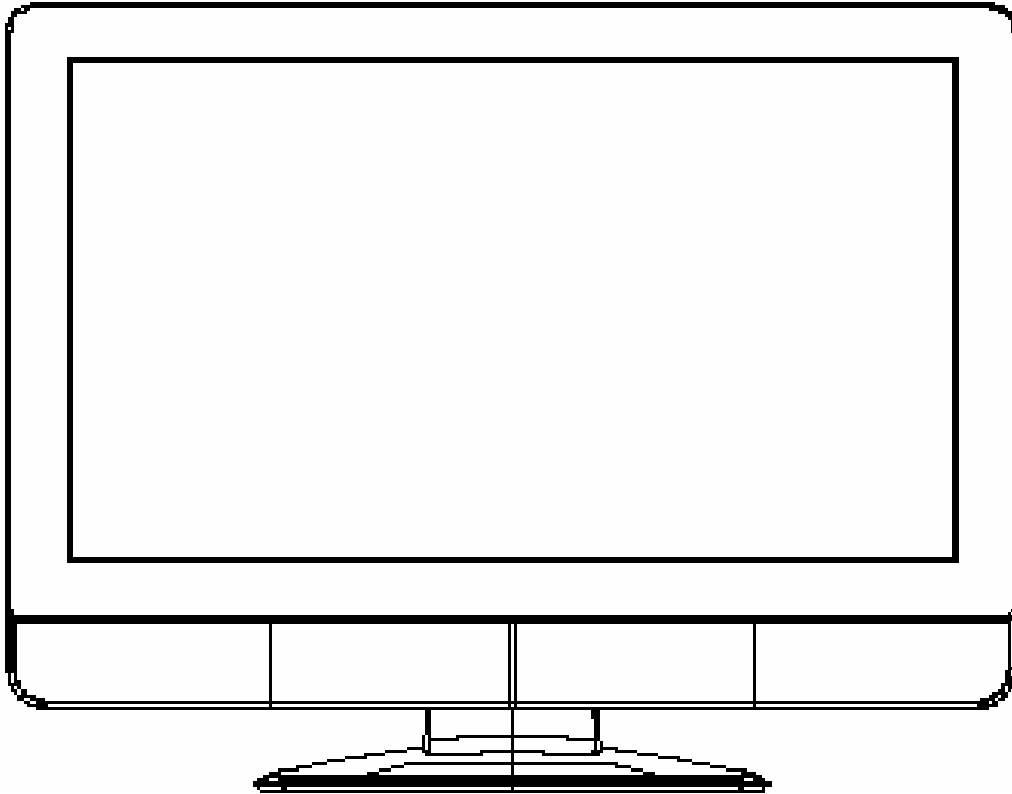


# Service Manual



**Model #: VIZIO VU42L FHDTV10A  
/VS42L FHDTV10A\_MT5373**

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*Top Confidential*

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1. Main Board Circuit Diagram
  2. Main Board PCB Layout
  3. Assembly Explosion Drawing
- Block Diagram

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#### FCC INFORMATION

This equipment has been tested and found to comply with the limits of a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that the interference will not occur in a particular installation. If this equipment does cause unacceptable interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures -- reorient or relocate the receiving antenna; increase the separation between equipment and receiver; or connect the into an outlet on a circuit different from that to which the receiver is connected.

#### FCC WARNING

To assure continued FCC compliance, the user must use a grounded power supply cord and the provided shielded video interface cable with bonded ferrite cores. Also, any unauthorized changes or modifications to Amtrak products will void the user's authority to operate this device. Thus VINC Will not be held responsible for the product and its safety.

#### CE CERTIFICATION

This device complies with the requirements of the EEC directive 89/336/EEC with regard to "Electromagnetic compatibility."

#### SAFETY CAUTION

Use a power cable that is properly grounded. Always use the AC cords as follows – USA (UL); Canada (CSA); Germany (VDE); Switzerland (SEV); Britain (BASEC/BS); Japan (Electric Appliance Control Act); or an AC cord that meets the local safety standards.

# Chapter 1      Features

---

1. Built in TV channel selector for TV viewing
2. Simultaneous display of PC and TV images
3. Connectable to PC's analog RGB port
4. Built in S-video, HDTV, composite video, HDMI and TV out
5. Built in auto adjust function for automatic adjustment of screen display
6. High quality 1920X1080 pixel by pixel display.
7. Smoothing function enables display of smooth texts and graphics even if image with resolution lower than 1920X1080 is magnified
8. Advanced video functions for personal favor.
9. Picture In Picture (PIP) function to show TV or VCR images
10. Power saving to reduce consumption power too less than 3W
11. On Screen Display: user can define display mode (i.e. color, brightness, contrast, sharpness, backlight), sound setting, PIP, TV channel program, aspect and gamma or reset all setting.

# Chapter 2 Specification

---

## 1. TFT-LCD CHARACTERISTICS

Model Name: LPL 42.0" WUXGA TFT LCD (Vendor: LG. Philips LCD Co., Ltd)

Display Size: 42.02 inches (1067.31mm) diagonal

Outline Dimension: 983.0 mm (H) x 576.0 mm (V) x 51.0 mm (D) (Typ.)

Pixel Pitch: 0.4845mm x 0.4845mm x RGB

Pixel Format: 1920 horiz. By 1080 vert. Pixels RGB strip arrangement

Display Operating Mode: Transmissive mode, normally Black

Surface Treatment: Hard Coating (3H) ,Anti-glare treatment of the front polarizer.

## 2. TFT-LCD OPTICAL CHARACTERISTICS

Contrast ratio: 1.CR : 900(Typ) 2. CR WITH AI : 1500(Typ)

Surface Luminance, White: 500 cd/m<sup>2</sup> (Typ)

Luminance Variation,  $\delta = 1.3$  (Max)

Response Time = 8 mx (Max=10mx)

Viewing Angle (CR>10)

Left: 89°typ.

Right: 89°typ.

Top: 89°typ.

Bottom: 89°typ.

## 3. Input Connectors

RJ11, D-SUB15PIN (MINI, 3rows), Headphone, HDMIX2, RCAX3 (component), RCAX2 (AUDIO in), RCAX3 (composite), RCAX2 (AUDIO in), S-Video, Tuner

## 4. POWER SUPPLY

Input Voltage Level: 90~240 Vac, 50/ 60 Hz

Power Consumption: 280W MAX

Power OFF: to less than 3W MAX

## 5. Speaker

Output 10W (max) X2

---

## **6. ENVIRONMENT**

- 6-1. Operating Temperature: 5c~35c (Ambient)
- 6-2. Operating Humidity: Ta= 35 °C, 90%RH (Non-condensing)
- 6-3. Operating Altitude: 0 - 14,000 feet (4267.2m)(Non-Operating)

## **7. DIMENSIONS (Physical dimension)**

Dimensions with stand :

1066mm(W) x 765.4mm(H) x 269.2mm(D) inches

Dimension without stand :

1066mm(W) x 650.5mm(H) x 123.5mm(D) inches

## **8. WEIGHT (Physical weight)**

- a. Net 36.0 +/- 0.5 kgs
- b. Gross 43 +/- 0.5 kgs

## **Precaution**

Please pay attention to the followings when you use this TFT LCD module.

### **1. OPERATING PRECAUTIONS**

- (1) The spike noise causes the mis-operation of circuits. It should be lower than following voltage :  
 $V = \pm 200\text{mV}$  (Over and under shoot voltage)
- (2) Response time depends on the temperature. (In lower temperature, it becomes longer.)
- (3) Brightness depends on the temperature. (In lower temperature, it becomes lower.) And in lower temperature, response time (required time that brightness is stable after turned on) becomes longer.
- (4) Be careful for condensation at sudden temperature change. Condensation makes damage to polarizer or electrical contacted parts. And after fading condensation, smear or spot will occur.
- (5) When fixed patterns are displayed for a long time, remnant image is likely to occur.
- (6) Module has high frequency circuits. System manufacturers shall do sufficient suppression to the electromagnetic interference. Grounding and shielding methods may be important to minimize the interference.

---

## **2. HANDLING PRECAUTIONS FOR PROTECTION**

- (1) The protection film is attached to the bezel with a small masking tape.  
When the protection film is peeled off, static electricity is generated between the film and polarizer. This should be peeled off slowly and carefully by people who are electrically grounded and with well ion-blown equipment or in such a condition, etc.
- (2) When the module with protection film attached is stored for a long time, sometimes there remains a very small amount of glue still on the bezel after the protection film is peeled off.
- (3) You can remove the glue easily. When the glue remains on the bezel surface or its vestige is recognized, please wipe them off with absorbent cotton waste or other soft material like chamois soaked with normal-hexane.

## Chapter 3 On Screen Display

On Screen Display (OSD) is a friendly interface providing the function adjusting in our system. Customers could operate it only by few buttons. There is the introduction of the OSD.

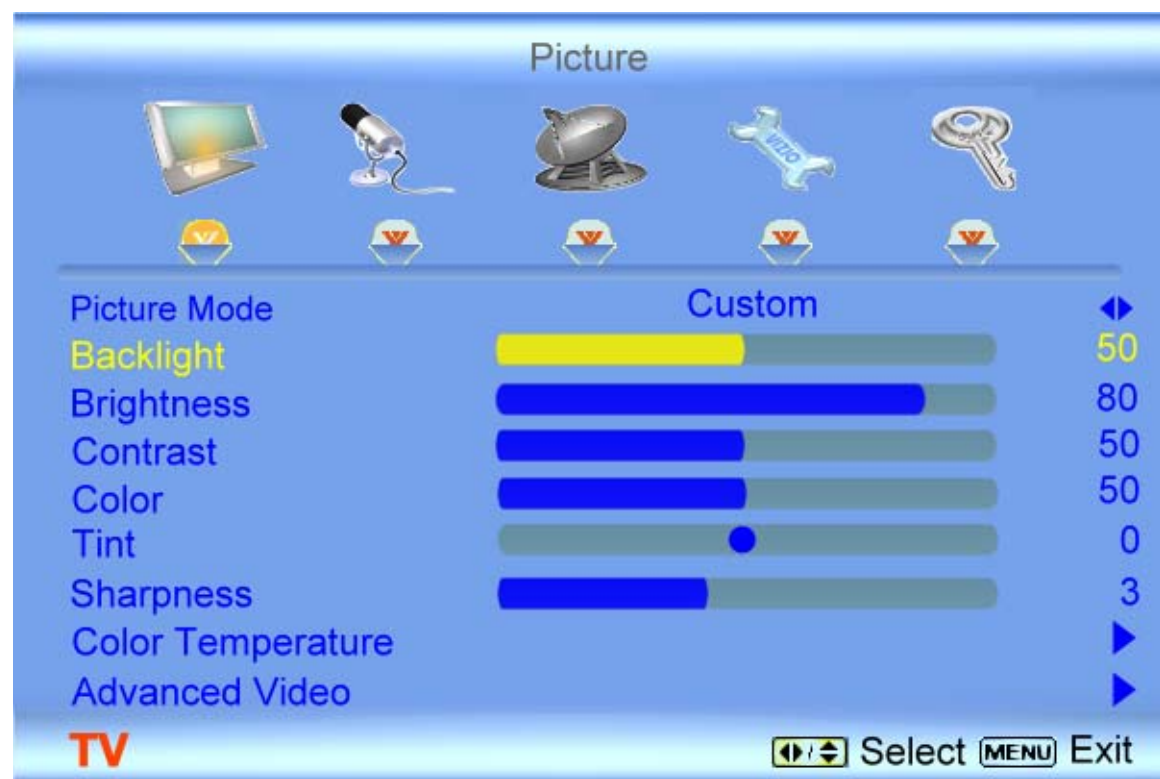
### Main unit button

MENU	OK
CH ▲	↑
CH ▼	↓
VOL +	←
VOL -	→
Input	

### [MENU]

“MENU” button could star the OSD which could adjust the performance and set up the setting between the different input sources. There are the structures.

#### TV Source





---

**A. Picture : (Bold: Default)**

- a. Picture Mode (Standard/Movie /Game / **Custom**)
- b. Backlight (0~100, **90**)
- c. Contrast (0~100, **50**)
- d. Brightness (0~100, **50**)
- e. Color (saturation)(0~100, **50**)
- f. Tint (hue) (-32~32, **0**)
- g. Sharpness (0~7, **4**)
- h. Color Temperature (**Cool**/Normal/Warm/Custom)
- i. Advanced Video
  - 1. DNC (Low/Medium/Strong/**Off**)
  - 2. Black level extender (**Off**/On)
  - 3. White Peak Limiter (**On**/Off)
  - 4. CTI (**Low**/Medium/Strong/Off)
  - 5. Flesh Tone (**Off**/On)
  - 6. Adaptive Luma (**Off**/On)
  - 7. DCR (**Off**/On)

**B. Audio : (Bold: Default)**



- a. Volume (0~100, **25**)
- b. Bass (0~100, **50**)
- c. Treble (0~100, **50**)
- d. Balance (-50~50, **0**)
- e. Surround (**ON**/OFF)
- f. Speakers (**ON**/OFF)

**C. TV : (Bold: Default)**



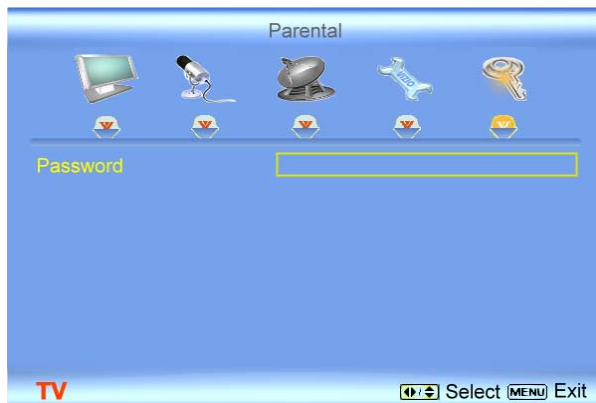
- a. Tuner Mode (**Cable**/Air)
- b. Auto Search
- c. Skip Channel
- d. Digital Audio Out (**PCM**/Dolby Digital/OFF)
- e. Time Zone (Eastern/Indiana/Central/Mountain/Arizona/Pacific/Alaska/Hawaii)
- f. DAYLIGHT SAVING (**ON**, OFF)

---

**D. Setup : (Bold: Default)**

- a. Language (**English**/ Français / Español)
- b. Sleep Timer (**OFF**/30Min/60Min/90Min/120Min)
- c. Analog CC (**OFF**/CC1~4/TT1~4)
- d. Digital CC (**OFF**/CC1~4/Service1~6)
- e. Digital CC Style
  - 1. Caption Style (As Broadcaster/Custom)
  - 2. Size (**Large**/Small/Medium)
  - 3. Font Color (**White**/Green/Blue/Red/Cyan/Yellow/Magenta/Black)
  - 4. Font Opacity (**Solid**/Translucent/Transparent)
  - 5. Background Color (White/Green/Blue/Red/Cyan/Yellow/Magenta/**Black**)
  - 6. Background Opacity (**Solid**/Translucent/Transparent)
  - 7. Window Color (White/Green/Blue/Red/Cyan/Yellow/Magenta/**Black**)
  - 8. Window Opacity (Solid/Translucent/**Transparent**)
- f. PIP
  - 1. Style (**OFF**/PIP/POP)
  - 2. Input (TV, AV1, AV2, COMPONENT1, COMPONENT2, RGB, HDMI1, HDMI2)
  - 3. Size (**Small**/Medium/Large)
  - 4. Position(**Bottom Right**, Bottom Center, Bottom Left, Middle Left, Top Left, Top Center, Top Right, Middle Right)
- g. H/V Position
  - 1. H. Position (0~64, 32)
  - 2. V. Position (0~32, 16)
  - 3. V. size (0~100, 20)
- h. Rest All Setting (OK/**Cancel**)

## E. Parental : (Bold: Default)



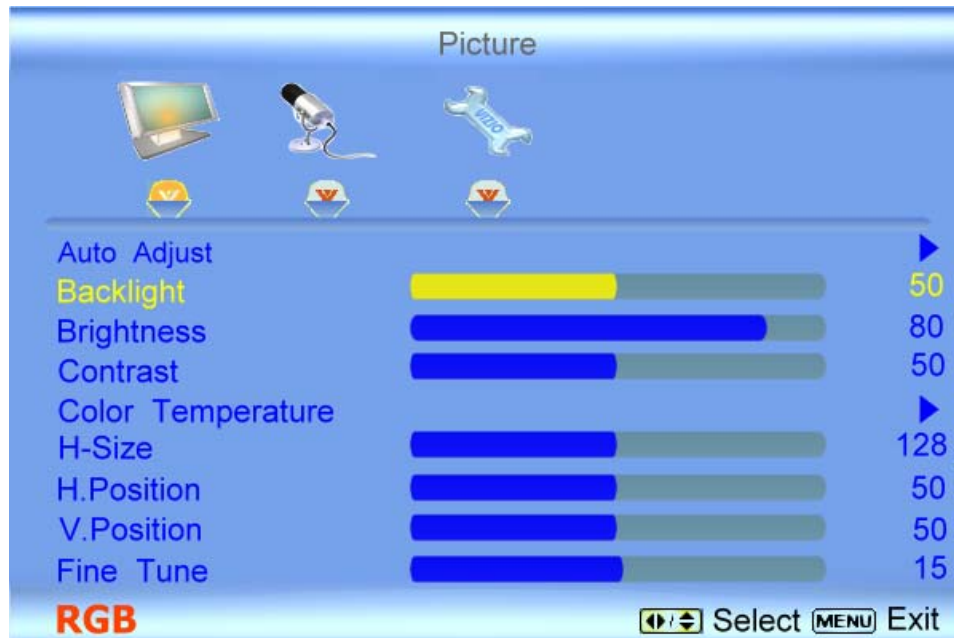
Password (Default => 0000)

- Channel Block
- TV Rating
- Move Rating
- Block Unrated TV (NO/Yes)
- Access Code Edit



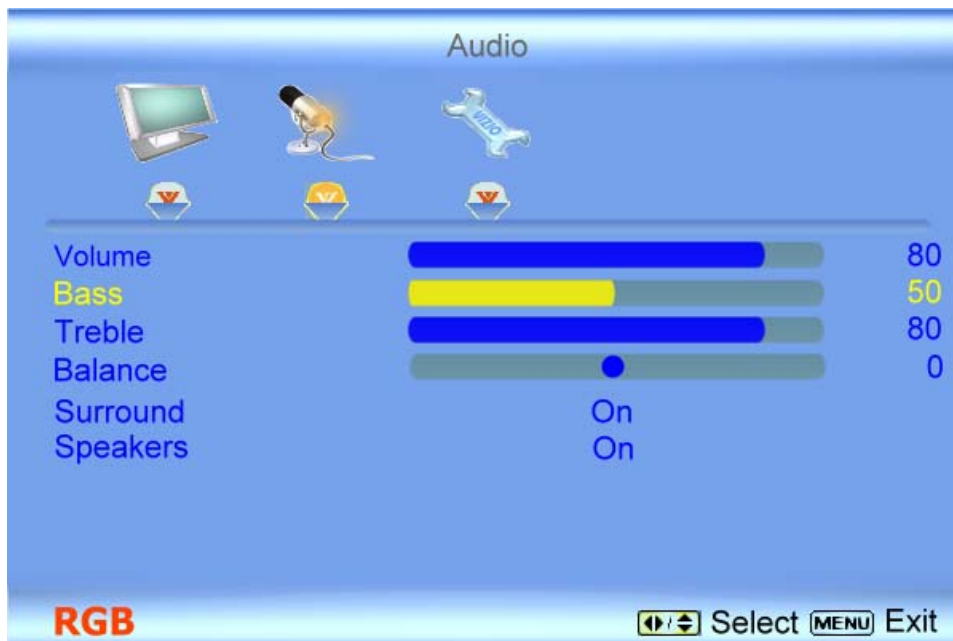
## RGB Mode

A. Picture Adjust : (**Bold: Default**)



- a. Auto Adjust
- b. Backlight (0~100, **90**)
- c. Contrast (0~100, **50**)
- d. Brightness (0~100, **50**)
- e. Color Temperature (**6500**/9300/Custom)
- f. H-Size (0~255, **127**)
- g. H-Position (0~100, **65**)
- h. V-Position (0~100, **49**)
- i. Fine Tune (0~31, **17**)

**B. Audio : (Bold: Default)**



- a. Volume (0~100, **25**)
- b. Bass (0~100, **50**)
- c. Treble (0~100, **50**)
- d. Balance (-50~50, **0**)
- e. Surround (**ON**/OFF)
- f. Speakers (**ON**/OFF)

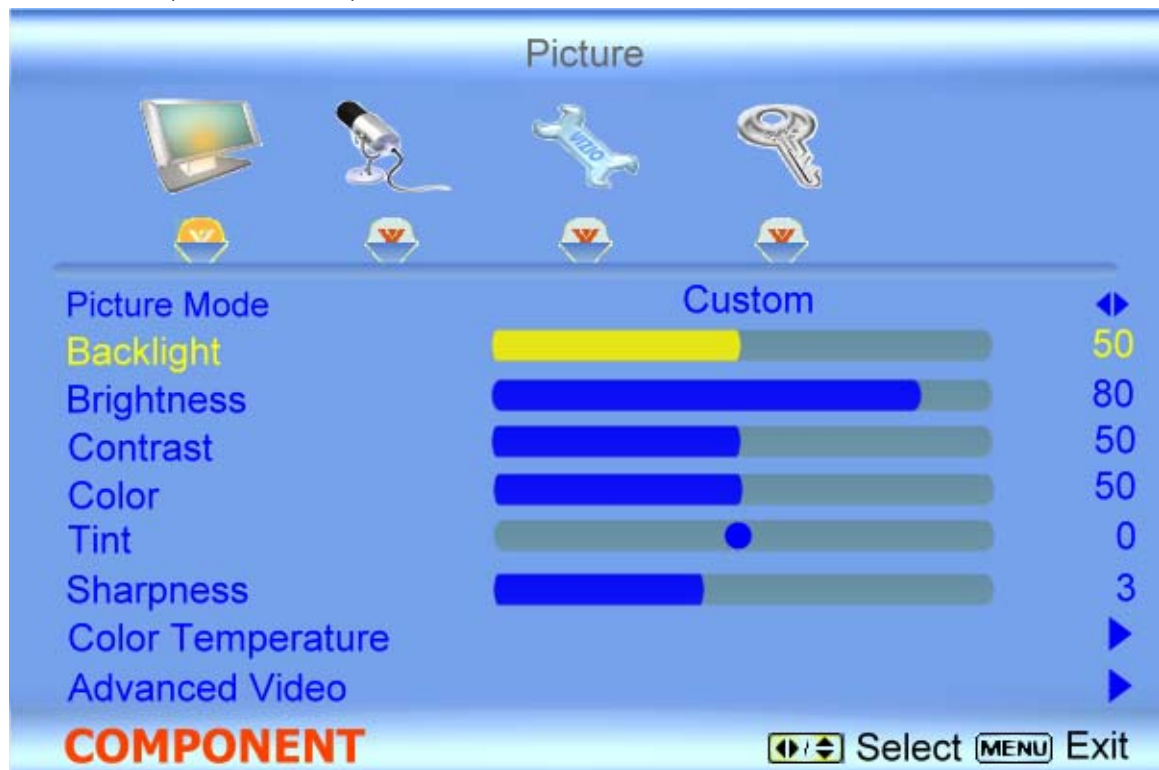
---

**D. Setup : (Bold: Default)**

- a. Language (**English**/ Français / Español)
- b. Sleep Timer (**OFF**/30Min/60Min/90Min/120Min)
- c. Analog CC (**OFF**/CC1~4/TT1~4)
- d. Digital CC (**OFF**/CC1~4/Service1~6)
- e. Digital CC Style
  - 1. Caption Style (As Broadcaster/Custom)
  - 2. Size (**Large**/Small/Medium)
  - 3. Font Color (**White**/Green/Blue/Red/Cyan/Yellow/Magenta/Black)
  - 4. Font Opacity (**Solid**/Translucent/Transparent)
  - 5. Background Color (White/Green/Blue/Red/Cyan/Yellow/Magenta/**Black**)
  - 6. Background Opacity (**Solid**/Translucent/Transparent)
  - 7. Window Color (White/Green/Blue/Red/Cyan/Yellow/Magenta/**Black**)
  - 8. Window Opacity (Solid/Translucent/**Transparent**)
- f. PIP
  - 1. Style (**OFF**/PIP/POP)
  - 2. Input (TV, AV1, AV2, COMPONENT1, COMPONENT2, RGB, HDMI1, HDMI2)
  - 3. Size (**Small**/Medium/Large)
  - 4. Position(**Bottom Right**, Bottom Center, Bottom Left, Middle Left, Top Left, Top Center, Top Right, Middle Right)
- g. H/V Position
  - 1. H. Position (0~64, 32)
  - 2. V. Position (0~32, 16)
  - 3. V. size (0~100, 20)
- h. Rest All Setting (OK/**Cancel**)

## **AV / COMPONENT MODE**

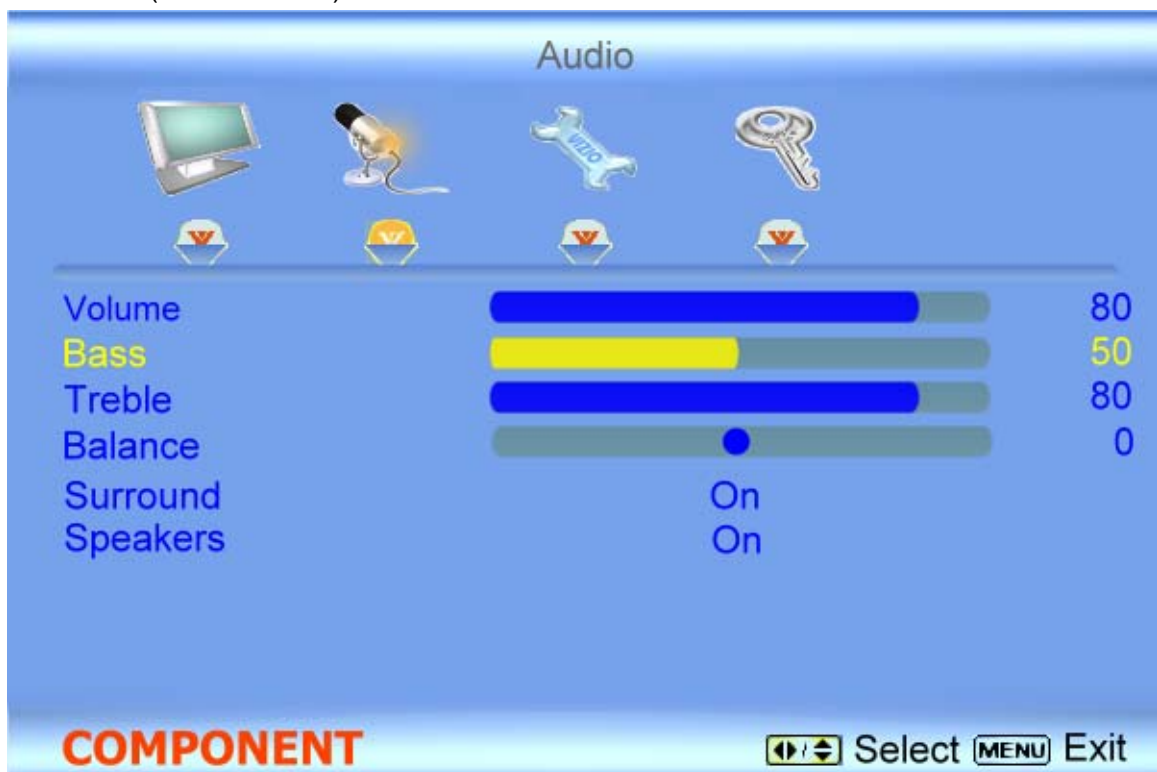
### **A. Picture : (Bold: Default)**



- a. Picture Mode (Standard/Movie /Game / **Custom**)
- b. Backlight (0~100, **90**)
- c. Contrast (0~100, **50**)
- d. Brightness (0~100, **50**)
- e. Color (saturation)(0~100, **50**)
- f. Tint (hue) (-32~32, **0**)
- g. Sharpness (0~7, **4**)
- h. Color Temperature (**Cool**/Normal/Warm/Custom)
- i. Advanced Video
  - 1. DNC (Low/Medium/Strong/**Off**)
  - 2. Black level extender (**Off**/On)
  - 3. White Peak Limiter (**On**/Off)
  - 4. CTI (**Low**/Medium/Strong/Off)
  - 5. Flesh Tone (**Off**/On)
  - 6. Adaptive Luma (**Off**/On)
  - 7. DCR (**Off**/On)



**B. Audio : (Bold: Default)**



- a. Volume (0~100, **25**)
- b. Bass (0~100, **50**)
- c. Treble (0~100, **50**)
- d. Balance (-50~50, **0**)
- e. Surround (**ON**/OFF)
- f. Speakers (**ON**/OFF)

**C. Setup : (Bold: Default)**

- a. Language (**English**/ Français / Español)
- b. Sleep Timer (**OFF**/30Min/60Min/90Min/120Min)
- c. Analog CC (**OFF**/CC1~4/TT1~4)
- d. Digital CC (**OFF**/CC1~4/Service1~6)
- e. Digital CC Style
  - 1. Caption Style (As Broadcaster/Custom)
  - 2. Size (**Large**/Small/Medium)
  - 3. Font Color (**White**/Green/Blue/Red/Cyan/Yellow/Magenta/Black)
  - 4. Font Opacity (**Solid**/Translucent/Transparent)
  - 5. Background Color (White/Green/Blue/Red/Cyan/Yellow/Magenta/**Black**)

6. Background Opacity (**Solid**/Translucent/Transparent)
7. Window Color (White/Green/Blue/Red/Cyan/Yellow/Magenta/**Black**)
8. Window Opacity (Solid/Translucent/**Transparent**)

f. PIP

1. Style (**OFF**/PIP/POP)
2. Input (TV, AV1, AV2, COMPONENT1, COMPONENT2, RGB, HDMI1, HDMI2)
3. Size (**Small**/Medium/Large)
4. Position(**Bottom Right**, Bottom Center, Bottom Left, Middle Left, Top Left, Top Center, Top Right, Middle Right)

g. H/V Position

1. H. Position (0~64, 32)
2. V. Position (0~32, 16)
3. V. size (0~100, 20)

h. Rest All Setting (OK/**Cancel**)

**D. Parental : (Bold: Default)**



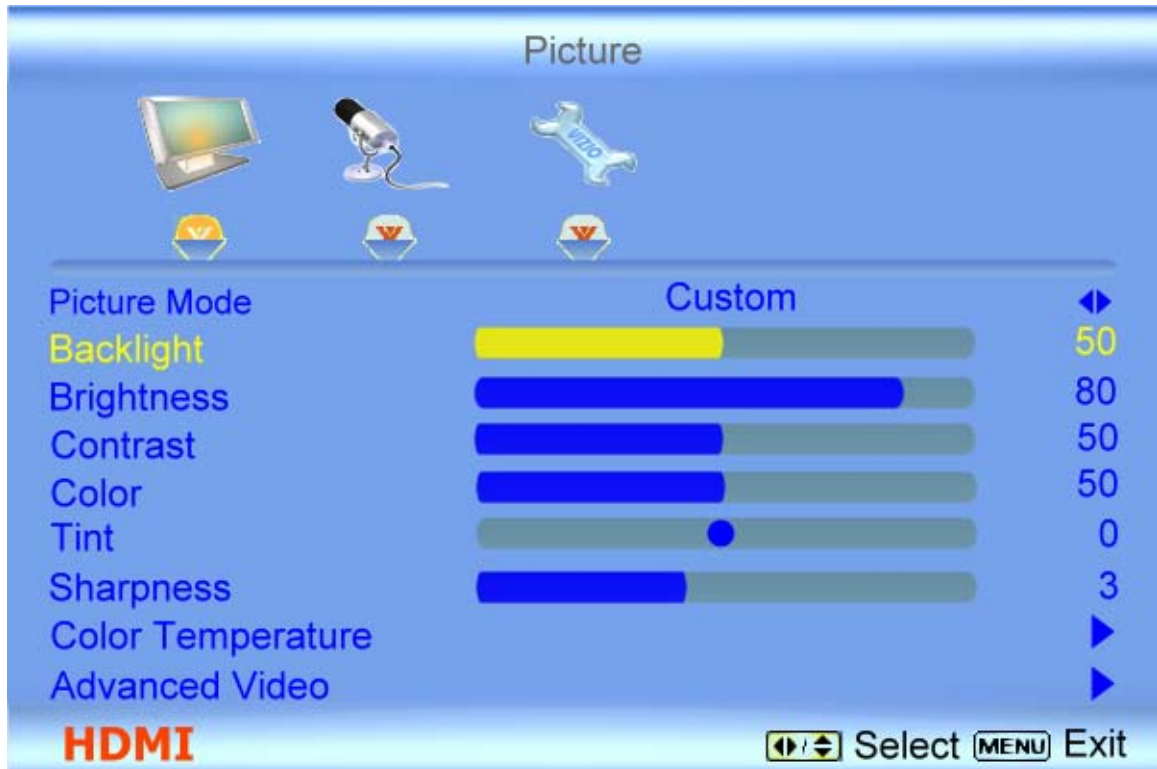
Password (**Default => 0000**)

- a. Cannel Block
- b. TV Rating
- c. Move Rating

- d. Block Unrated TV (**NO**/Yes)
- e. Access Code Edit

## HDMI MODE

### A. Picture : (**Bold: Default**)

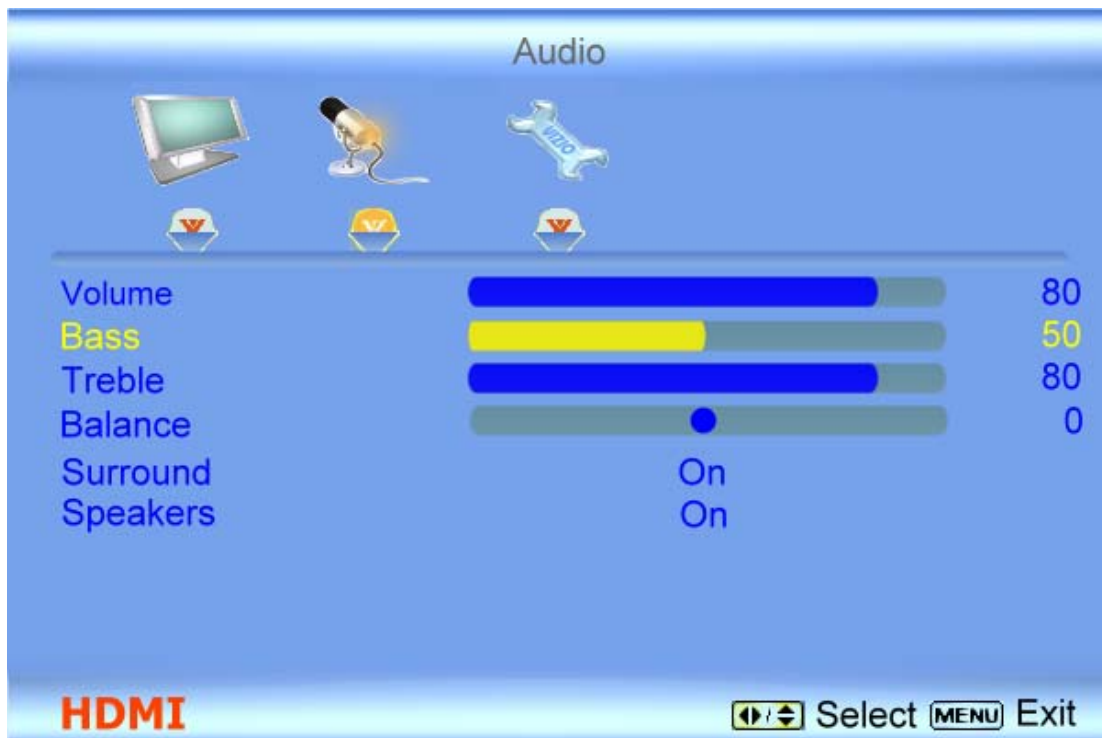


- a. Picture Mode (Standard/Movie /Game / **Custom**)
- b. Backlight (0~100, **90**)
- c. Contrast (0~100, **50**)
- d. Brightness (0~100, **50**)
- e. Color (saturation)(0~100, **50**)
- f. Tint (hue) (-32~32, **0**)
- g. Sharpness (0~7, **4**)
- h. Color Temperature (**Cool**/Normal/Warm/Custom)

i. Advanced Video

1. DNC (Low/Medium/Strong/**Off**)
2. Black level extender (**Off**/On)
3. White Peak Limiter (**On**/Off)
4. CTI (**Low**/Medium/Strong/Off)
5. Flesh Tone (**Off**/On)
6. Adaptive Luma (**Off**/On)
7. DCR (**Off**/On)

B. Audio : (**Bold: Default**)



- a. Volume (0~100, **25**)
- b. Bass (0~100, **50**)
- c. Treble (0~100, **50**)
- d. Balance (-50~50, **0**)
- e. Surround (**ON**/OFF)
- f. Speakers (**ON**/OFF)

---

**C. Setup : (Bold: Default)**

- a. Language (**English**/ Français / Español)
- b. Sleep Timer (**OFF**/30Min/60Min/90Min/120Min)
- c. Analog CC (**OFF**/CC1~4/TT1~4)
- d. Digital CC (**OFF**/CC1~4/Service1~6)
- e. Digital CC Style
  - 1. Caption Style (As Broadcaster/Custom)
  - 2. Size (**Large**/Small/Medium)
  - 3. Font Color (**White**/Green/Blue/Red/Cyan/Yellow/Magenta/Black)
  - 4. Font Opacity (**Solid**/Translucent/Transparent)
  - 5. Background Color (White/Green/Blue/Red/Cyan/Yellow/Magenta/**Black**)
  - 6. Background Opacity (**Solid**/Translucent/Transparent)
  - 7. Window Color (White/Green/Blue/Red/Cyan/Yellow/Magenta/**Black**)
  - 8. Window Opacity (Solid/Translucent/**Transparent**)
- f. PIP
  - 1. Style (**OFF**/PIP/POP)
  - 2. Input (TV, AV1, AV2, COMPONENT1, COMPONENT2, RGB, HDMI1, HDMI2)
  - 3. Size (**Small**/Medium/Large)
  - 4. Position(**Bottom Right**, Bottom Center, Bottom Left, Middle Left, Top Left, Top Center, Top Right, Middle Right)
- g. H/V Position
  - 1. H. Position (0~64, 32)
  - 2. V. Position (0~32, 16)
  - 3. V. size (0~100, 20)
- h. Rest All Setting (OK/**Cancel**)

---

## [INPUT]

“INPUT” could supply an interface providing a list. The list shows input sources and provides the choices of different sources. The list includes items as below:


MAIN
TV
AV1
AV2
COMPONENT1
COMPONENT2
RGB
HDMI1
HDMI2

- A. **TV**: Analog TV or digital TV
  - B. **AV1**, **AV2**: Composite (AV) signal
  - C. **Component1**, **Component2**: Color difference (YPbPr) video signals.
  - D. **RGB**: Video Graphics Array (VGA) or D-sub video signals.
  - E. **HDMI1**, **HDMI2**: High Definition Multimedia Interface (HDMI) multimedia signals.
- Note** : The list of PIP provides the choices of different sources on sub-screen.

## [INFO]

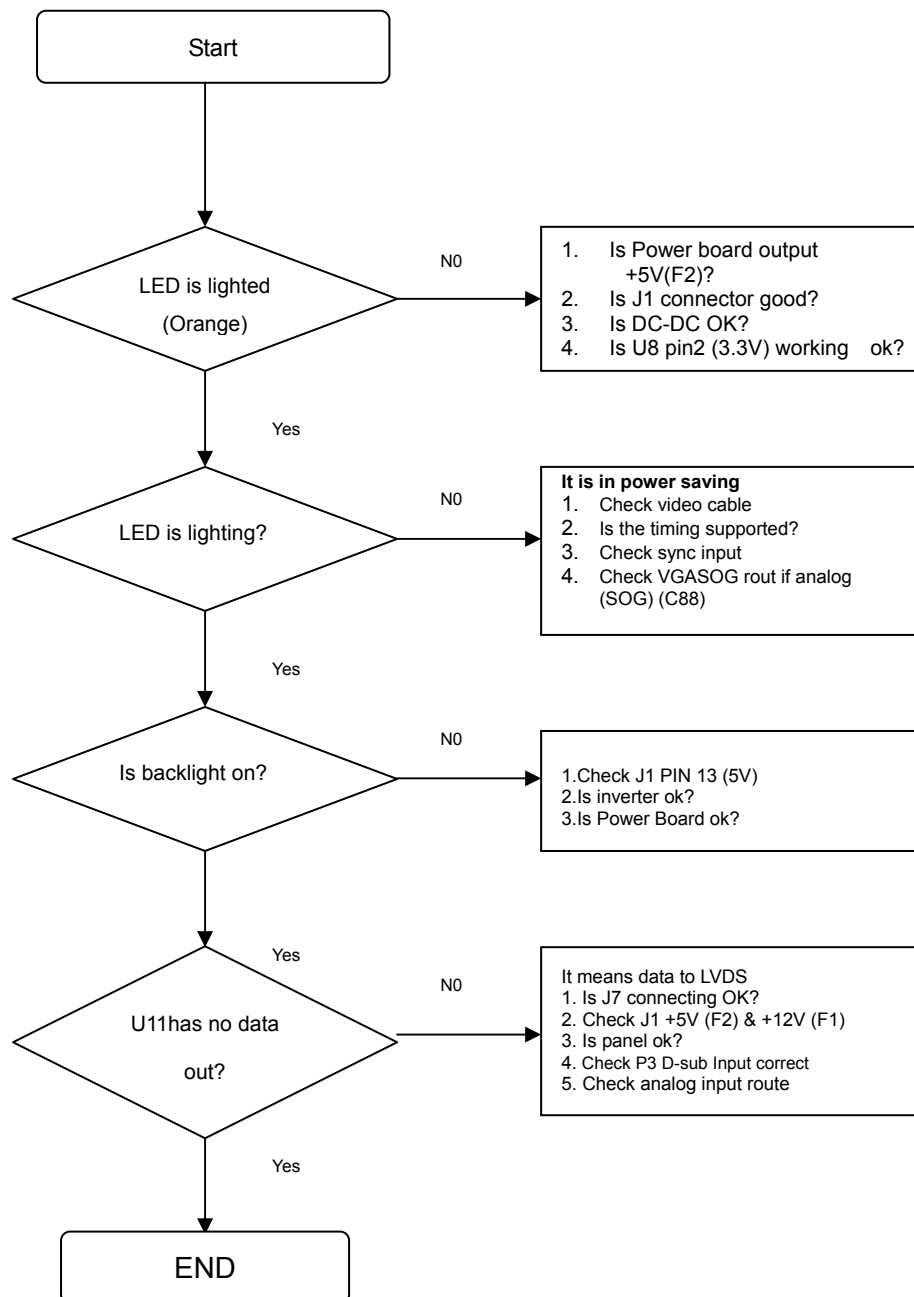
“INFO” button could show an information bar which displays the information about the input signal on our LCD TV.

---

<b>Charmed</b>			<b>20-2</b>
11:00 PM - 12:00 AM		English stereo	<b>KBWB-SD</b>
TV-14-V		480i SD	Cable

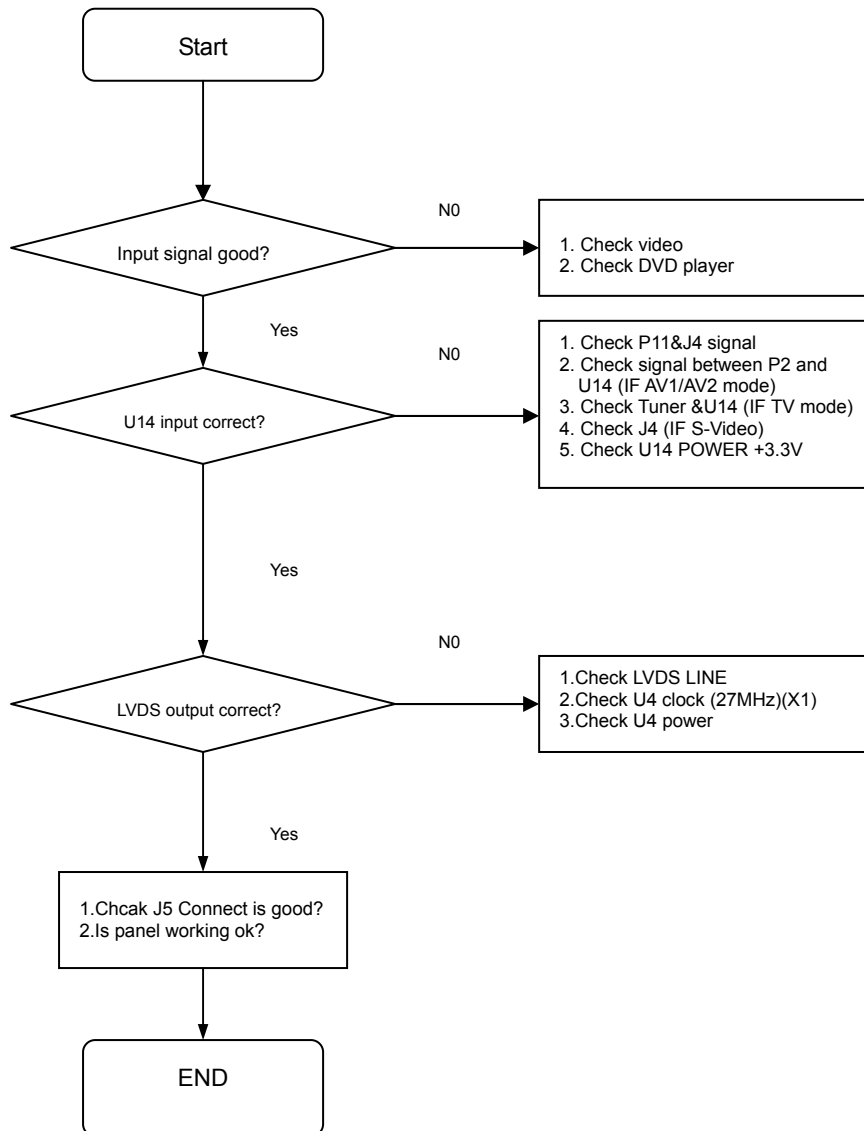
# Chapter 9    Trouble solvents

## MONITOR DISPLAY NOTHING (PC MODE)

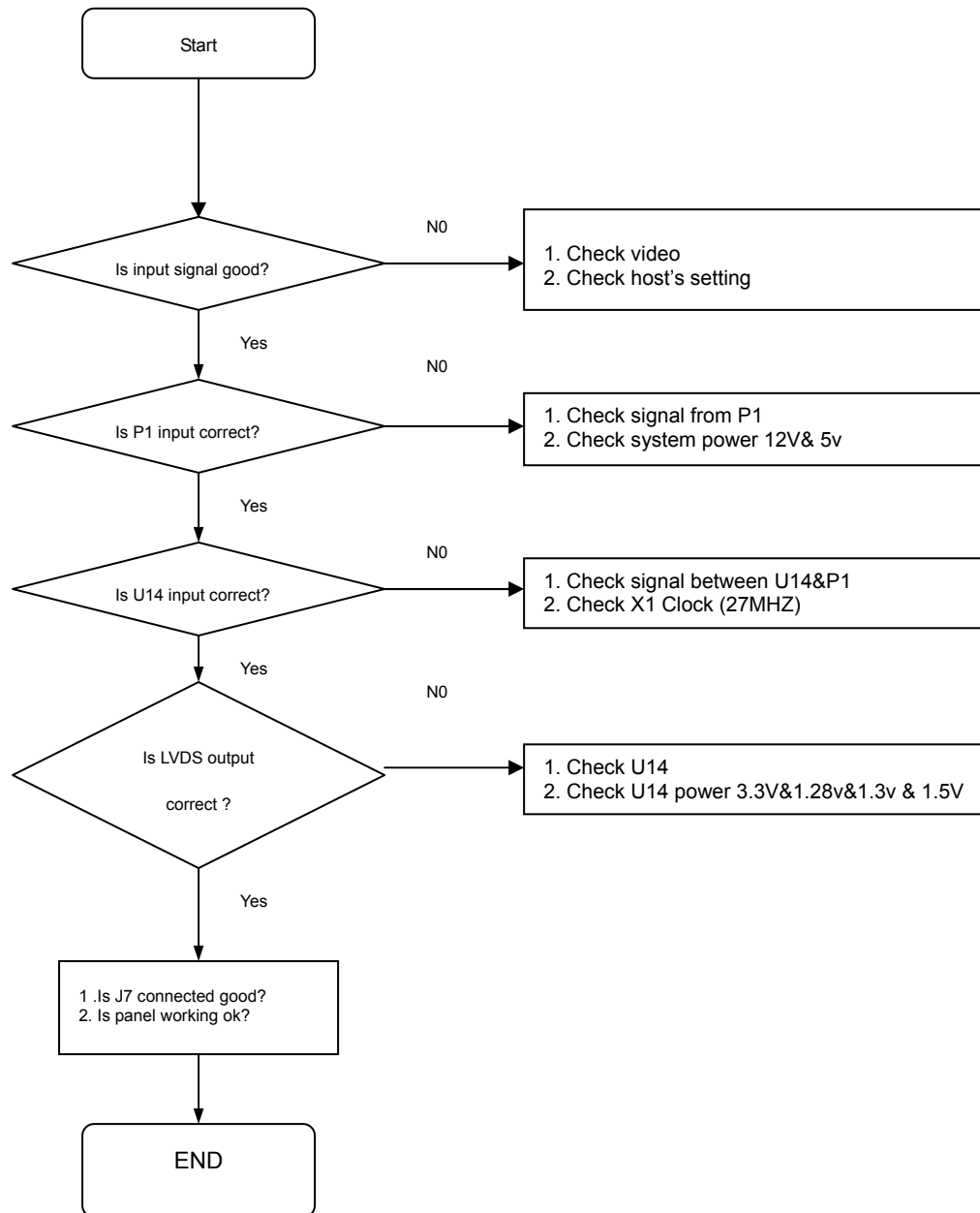




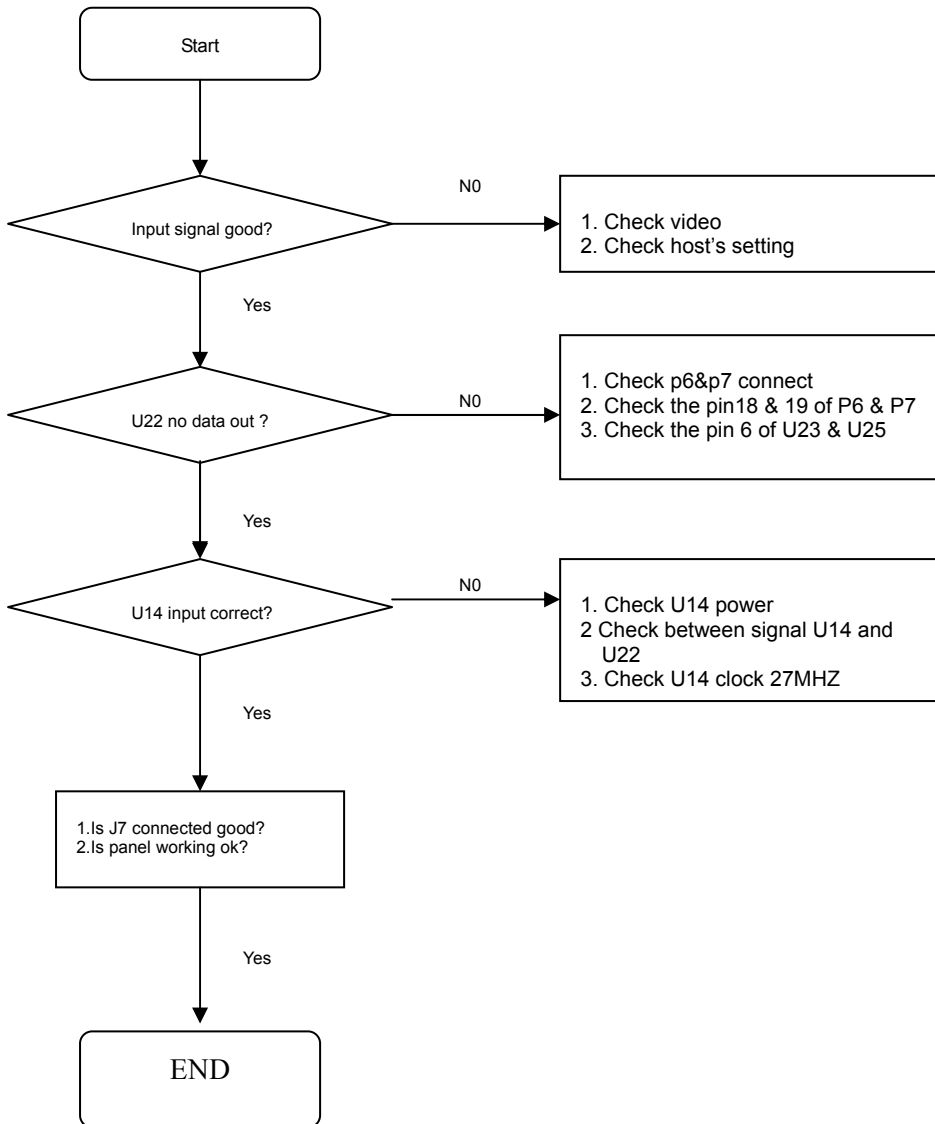
(TV, COMPOSITE VIDEO1, 2, S-VIDEO) IS NOT DISPLAY CORRECTLY



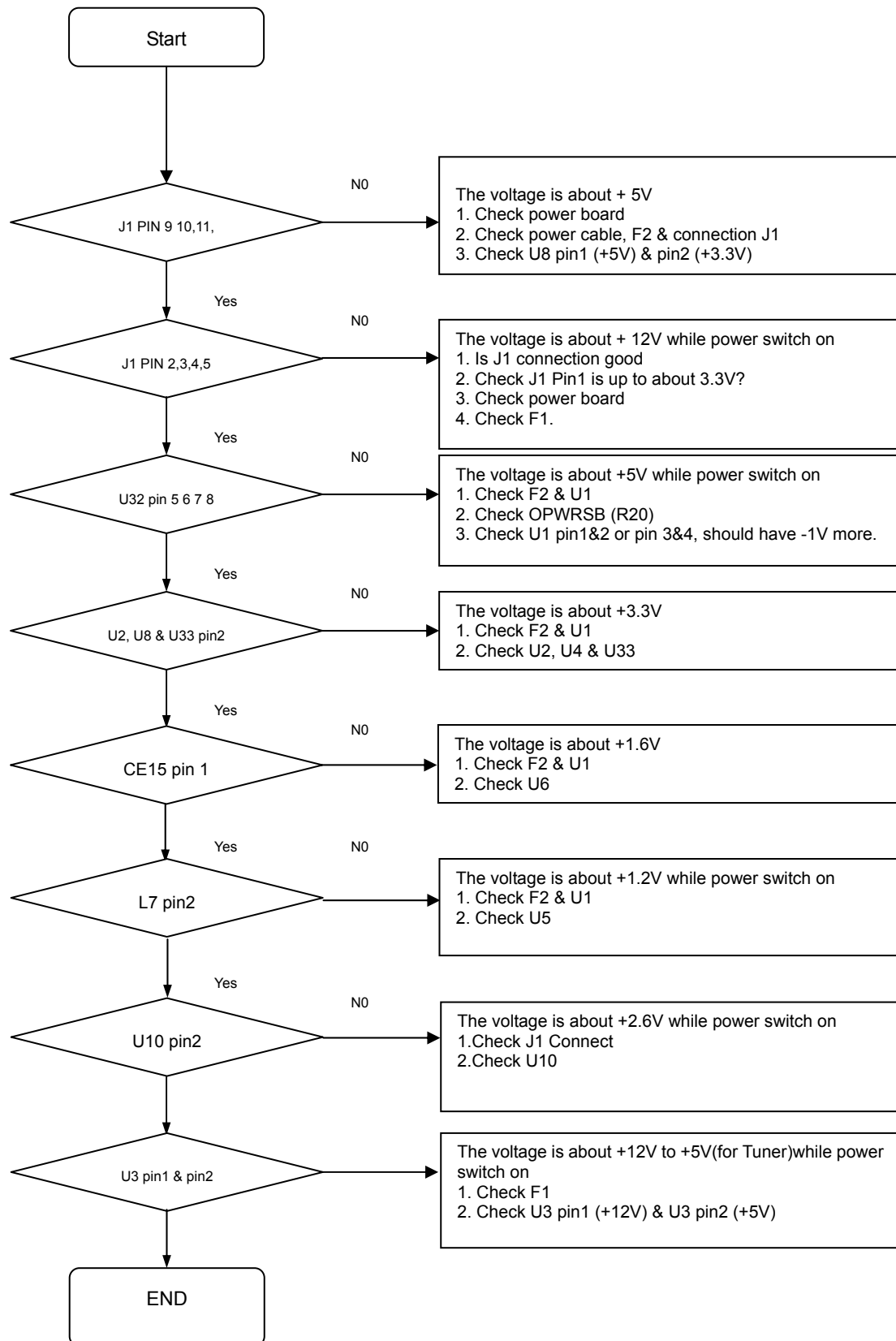
(COMPONENT1, 2) IS NOT DISPLAY CORRECTLY



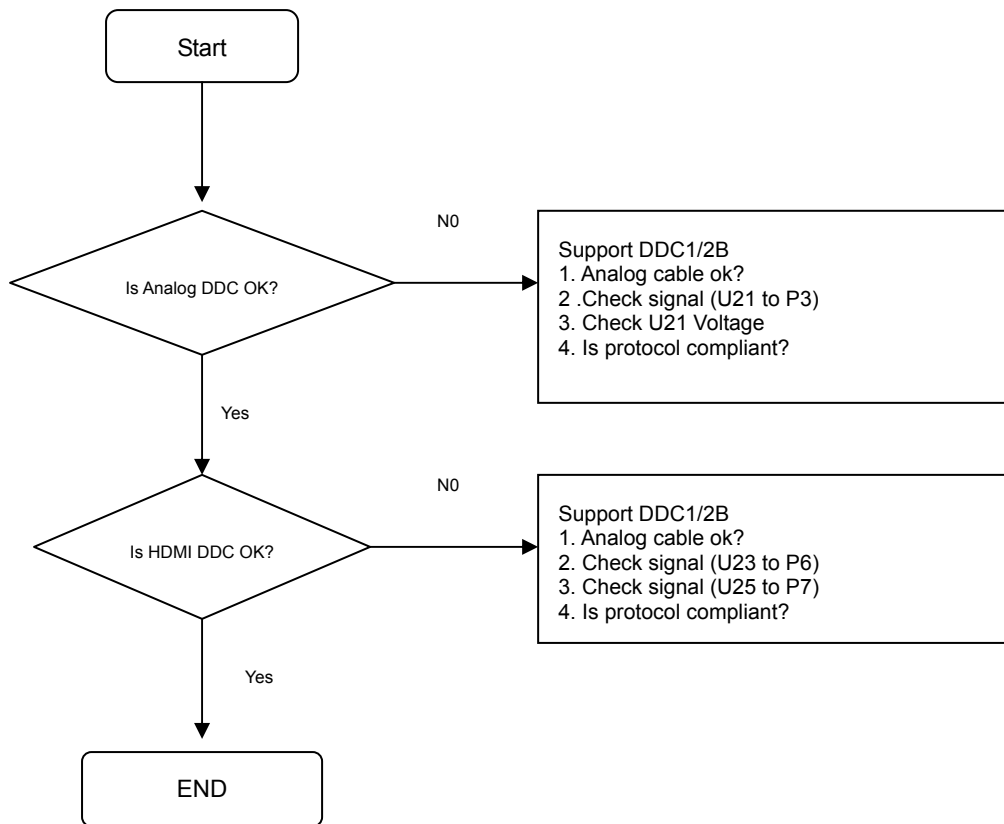
## (HDMI) IS NOT DISPLAY CORRECTLY



## TROUBLE OF DC-DC CONVERTER



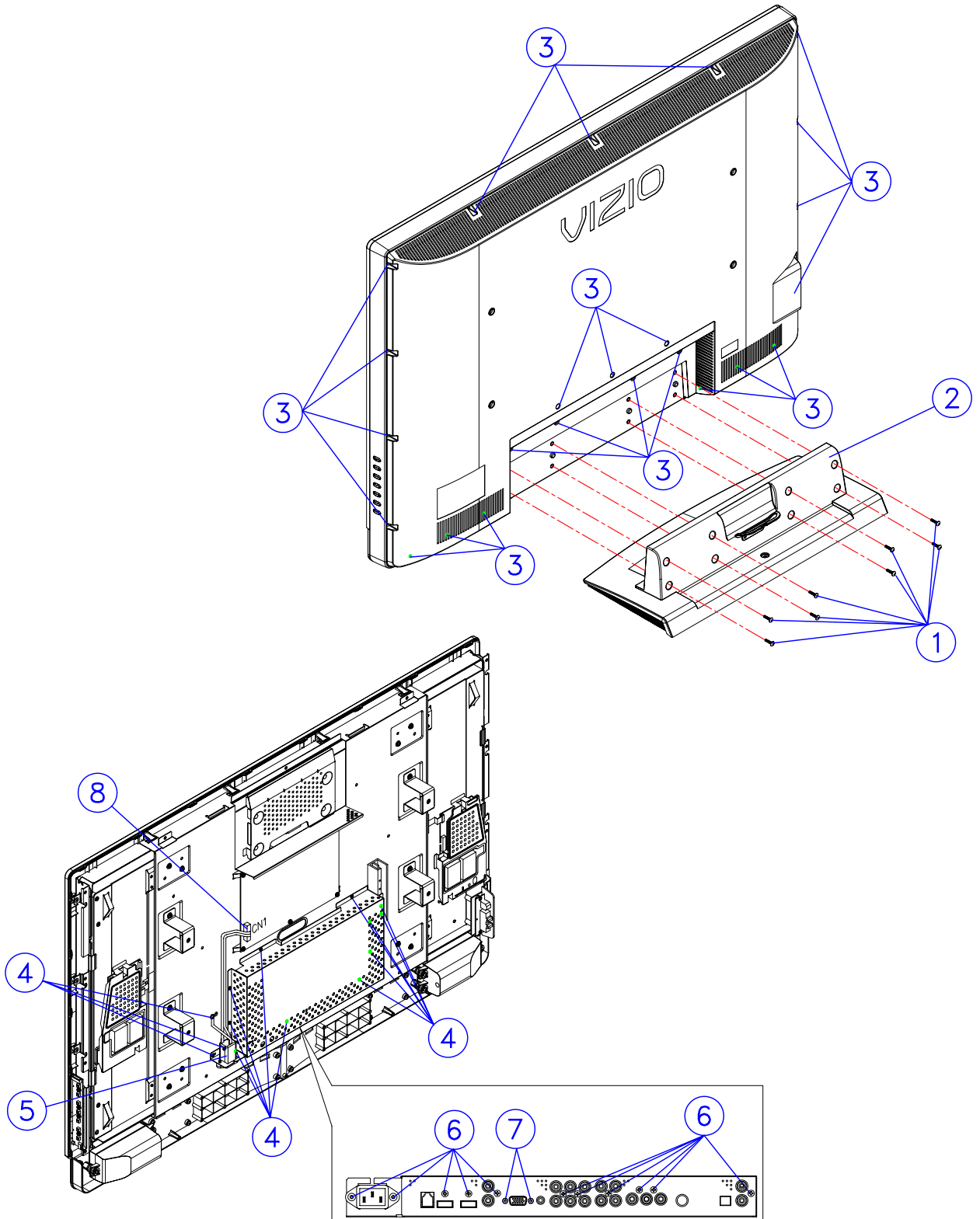
## TROUBLE OF EDID READING



## 1. REAR COVER ASS'Y REMOVAL

*Note: Spread a mat underneath to avoid damaging the TV surface.*

- 1) Remove eight screws ① from Base Ass'y ②.
- 2) Separate the Base Ass'y ②.
- 3) Remove twenty-four screws ③ from rear cover.
- 4) Separate the rear cover.
- 5) Remove fourteen screws ④, eleven screws ⑥, and two hexagon screws ⑦ from Main Shielding.
- 6) Remove the connector ⑧ (CN1) of the AC IN cable.
- 7) Separate the Main Shielding and AC Inlet ⑤.

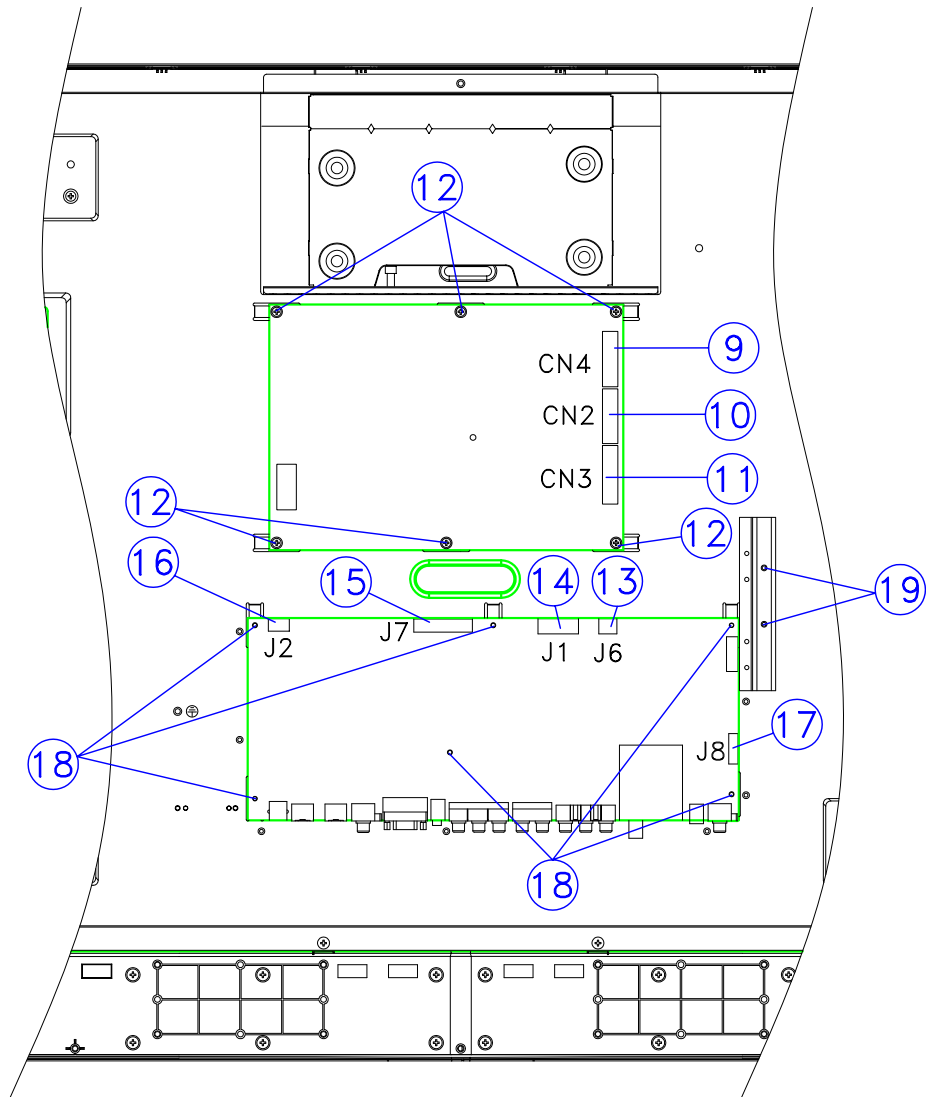


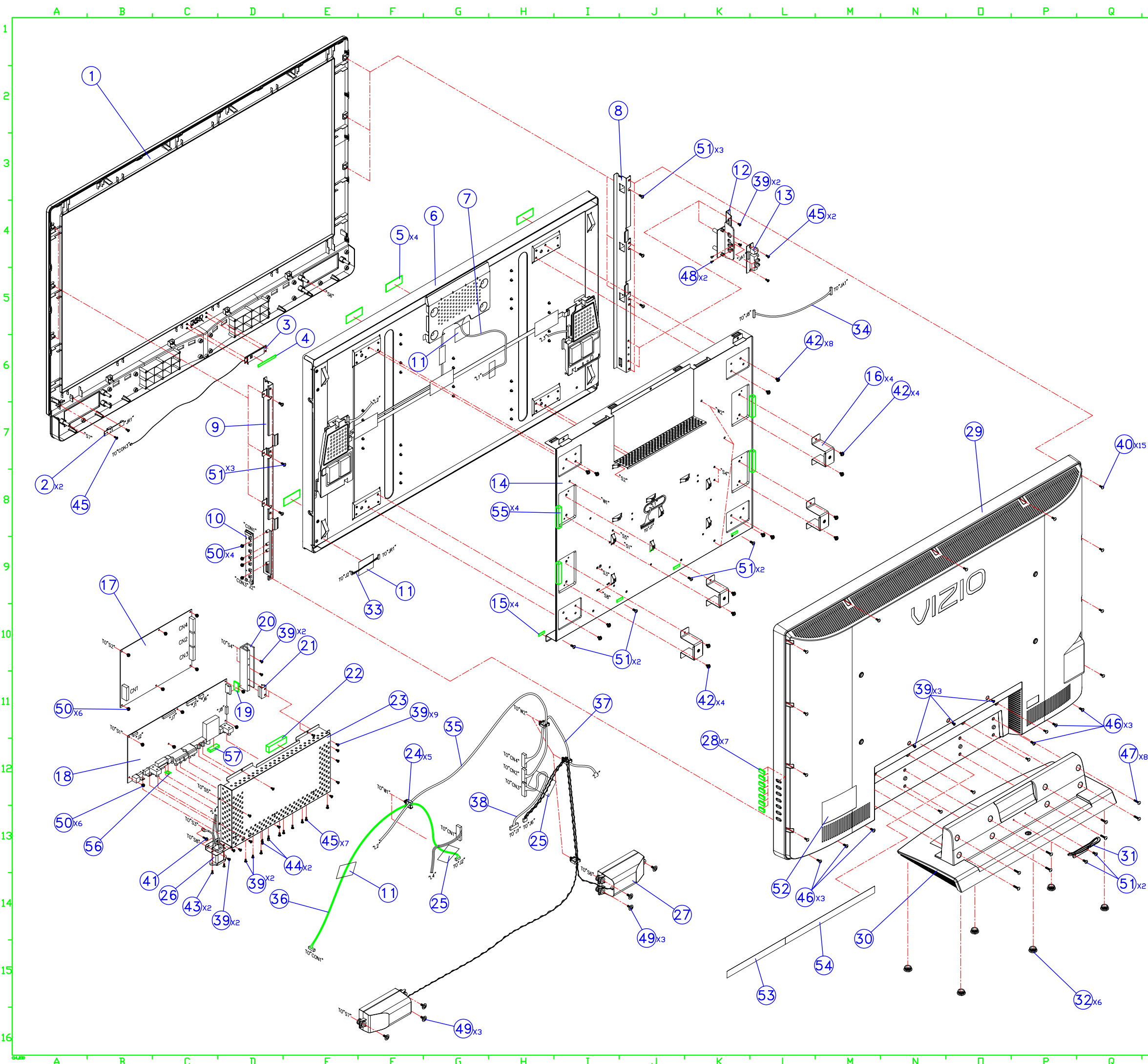
## 2. POWER BD ASS'Y REMOVAL

- 1) Remove the connector ⑨ (CN2) ⑧ (CN4) of the inverter cable.
- 2) Remove the connector ⑩ (CN3) of the power cable.
- 3) Remove six screws ⑫ from Power BD ASS'Y .
- 4) Separate the Power BD ASS'Y .

## 3. MAIN BD ASS'Y REMOVAL

- 2) Remove the connector ⑬ (J6) of the speaker cable.
- 3) Remove the connector ⑭ (J1) of the Power cable.
- 4) Remove the connector ⑮ (J7) of the LVDS cable.
- 5) Remove the connector ⑯ (J2) of the Display cable.
- 6) Remove the connector ⑰ (J8) of the connector cable.
- 6) Remove two screws ⑲ from Heat sink.
- 7) Remove six screws ⑱ from MAIN BD .
- 8) Separate the MAIN BD .





ITEM	DESCRIPTION	QTY
1	FRONT BEZEL (VU42L)ASS'Y	1
2	IR BD ASS'Y GV42L HDTV	1
3	LED BACKLIGHT 18*50*2.7 800mm LP1063-S545	1
4	MYLAR (L60*W6*0.8t)	1
5	SPONGE (22.0L*55.0W*0.6t)	4
6	LCD MODULE 42.0" TFT LC420WU3-SLA1(RoHS)(LG.PHILIPS)	1
7	WH FI-RE51HL-P240430 20276#30 330mm+ABSORBER	1
8	PANEL BKT_L (VU42L HDTV10A_WU3)(SECC T=1.0)	1
9	PANEL BKT_R (VU42L HDTV10A_WU3)(SECC T=1.0)	1
10	DISPLAY BD ASS'Y (VU42L FHDTV10A)	1
11	SHIELDING AL. TAPE (50.0*40.0)	3
12	SIDE JACK PLATE (VU42L_WU3)	1
13	CONNECTOR BD ASS'Y VX32L HDTV	1
14	CHASSIS (VX42L HDTV10A_LPL)(SECC T=0.8)	1
15	SPONGE(22.0L*6.0W*0.6t)	4
16	WALL MOUNT SUPPORT (VX37L HDTV)	4
17	POWER BD ASS'Y 283W DPS-283BP LF	1
18	MAIN BD ASS'Y VU42L FHDTV10A	1
19	HEATPATH (25x14mm)	1
20	HEAT SINK (VX37L HDTV)	1
21	HEAT SINK FIX MTEAL (TM-30A)	1
22	GASKET BLOCK (10W*17H*60L)	1
23	MAIN SHIELDING (VU42L FHDTV10A)(SECC T=0.8)	1
24	WIRE SADDLE (CH-14)	4
25	SHIELDING AL.TAPE(70.0*50.0)	2
26	AC INLET +VHR5P 1617#22 270mm 1015#18 115mm	1
27	SPK BOX 10W Bohm(155*56*55) 1200/650mm (L,R) LF	1
28	GASKET BLOCK	7
29	REAR COVER (VU42L FHDTV10A)ASS'Y	1
30	BASE (VU42L FHDTV10A)	1
31	CABLE CLIP (VX37L)	1
32	BASE FOOT (TM-32V)	6
33	WH A2001H02-4P/A2001H02-4P 1061#26 140mm	1
34	WH A2001H02-12P/A2001H02-12P 1061#26 300mm	1
35	WH A2001H02-14P/A2543H00-13P 1007#24 800mm	1
36	WH A1251H02-10P/A1251H02-10P 1571#28 800mm	1
37	WH A2543H00-13P-2001H00-12P 1007#24 500mm	1
38	WH A2543H00-15P/A2001H02-13P 1007#24 250mm	1
39	MAC. SCREW-MB M3.0*6.0L,BLK-Ni	21
40	MAC. SCREW-MB M4.0*8.0L, BLK-Ni	15
41	MAC. SCREW-MPGW M4.0*8.0L,Ni	1
42	MAC. SCREW-MPSWF M4.0*6.0L,Ni	16
43	MAC.SCREW-MF M3.0*8.0L,Ni	2
44	MAC. SCREW-MHSW #4-40*8.0L,Ni	2
45	TAP. SCREW-TB #3.0*8.0L,Ni	11
46	TAP. SCREW-TP #4.0*10.0L, BLK-Ni	16
47	TAP. SCREW-TP #4.0*16.0L, BLK-Ni	8
48	TAP. SCREW-MF M3.0*9.0L,BLK-Ni	2
49	TAP. SCREW-TRF #4.0*12.0L,Ni	6
50	SCREW PHW M3-0.5*6.1 W=7.8 NYLOK	16
51	TAP. SCREW TP#4.0*8.0L,Ni	12
52	B/C LBL VIZIO VU42L FHDTV10A	1
53	REAR PLATE_L VIZIO VW42/VX42 HDTV10A	1
54	REAR PLATE_R VIZIO VW42/VX42 HDTV10A	1
55	GASKET BLOCK(10.0*10.5*60.0mm)	4
56	GASKET BLOCK(5.5H*10.0W*30.0Lmm)	1
57	GASKET BLOCK(12L*10W*2.5Hmm)	1

VIZIO VU42L FHDTV10A-LPL

9642-8500-5053

DESCRIPTION

PART NO.

AmTRAN

TECHNOLOGY Co., LTD.

THIRD ANGLE PROJECTION

MODEL No.

VIZIO VU42L FHDTV10A-LPL

ISSU

Jessie Yu

05/31/07

MATERIAL

\*\*\*\*\*

DWG. NAME

42" CASE ASS'Y

CHK

QTY

1

SIZE

A1

SCALE

Full

UNIT

MM

DWG. No.

VIZIO-VU42L FHDTV10A-LPL.DWG

REV.

0

SHEET

1 of 1

UNLESS OTHERWISE NOTED

XJ = 40.10

X = 40.2

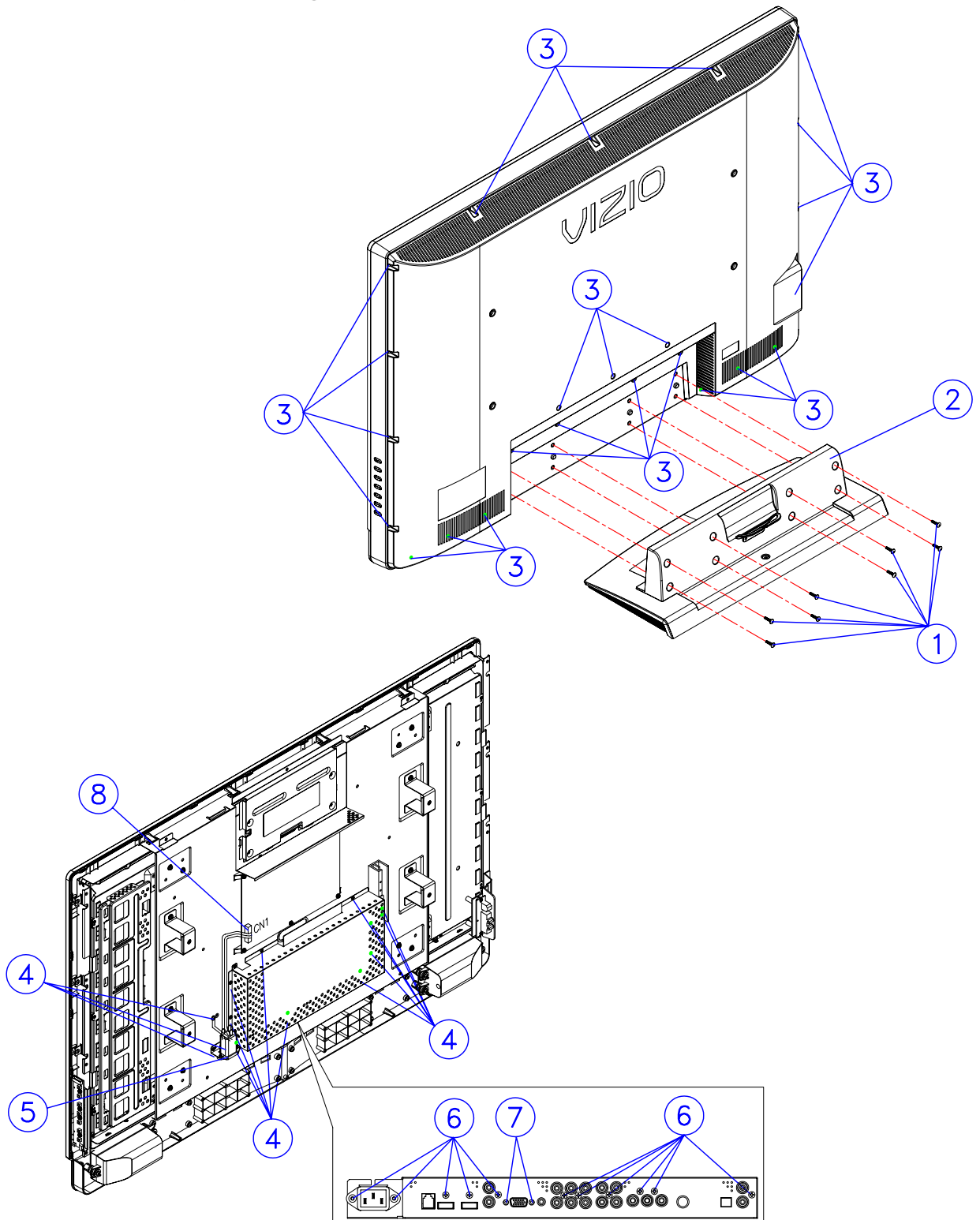
ANG. = 21/2"



## 1. REAR COVER ASS'Y REMOVAL

*Note: Spread a mat underneath to avoid damaging the TV surface.*

- 1) Remove eight screws ① from Base Ass'y ②.
- 2) Separate the Base Ass'y ②.
- 3) Remove twenty-four screws ③ from rear cover.
- 4) Separate the rear cover.
- 5) Remove fourteen screws ④, eleven screws ⑥, and two hexagon screws ⑦ from Main Shielding.
- 6) Remove the connector ⑧ (CN1) of the AC IN cable.
- 7) Separate the Main Shielding and AC Inlet ⑤.

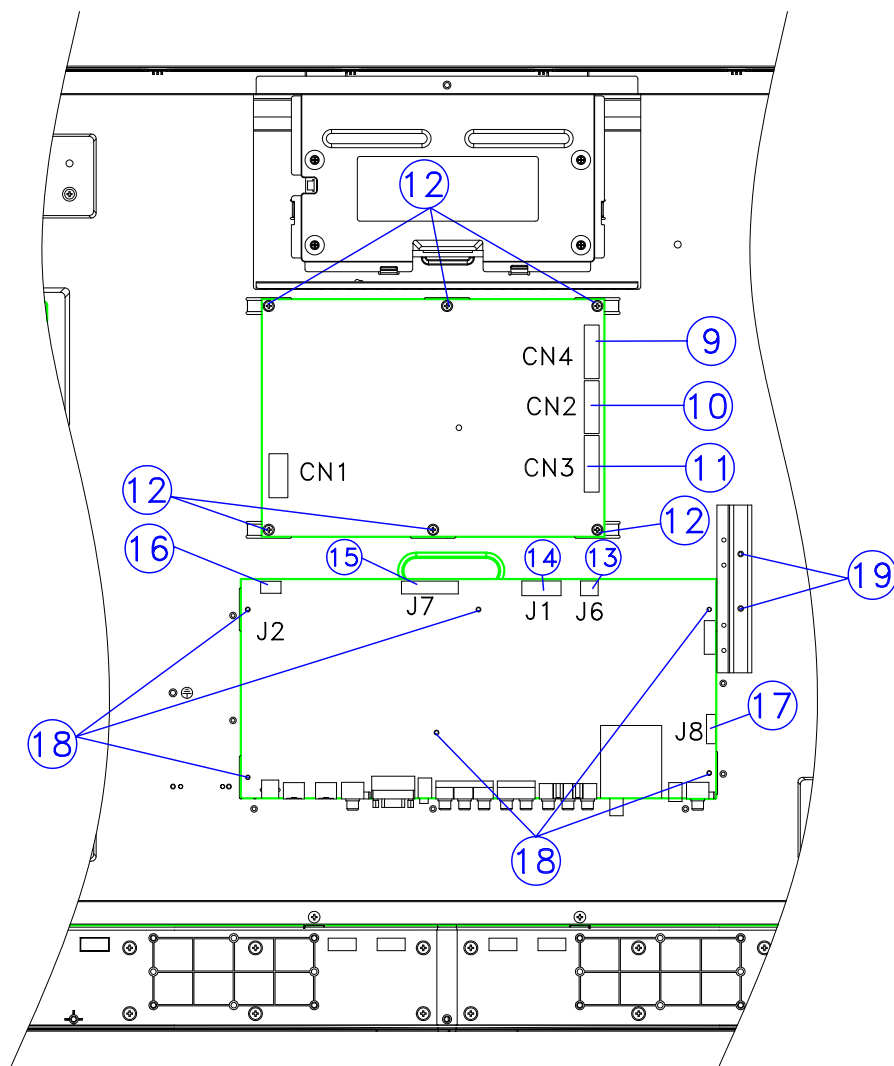


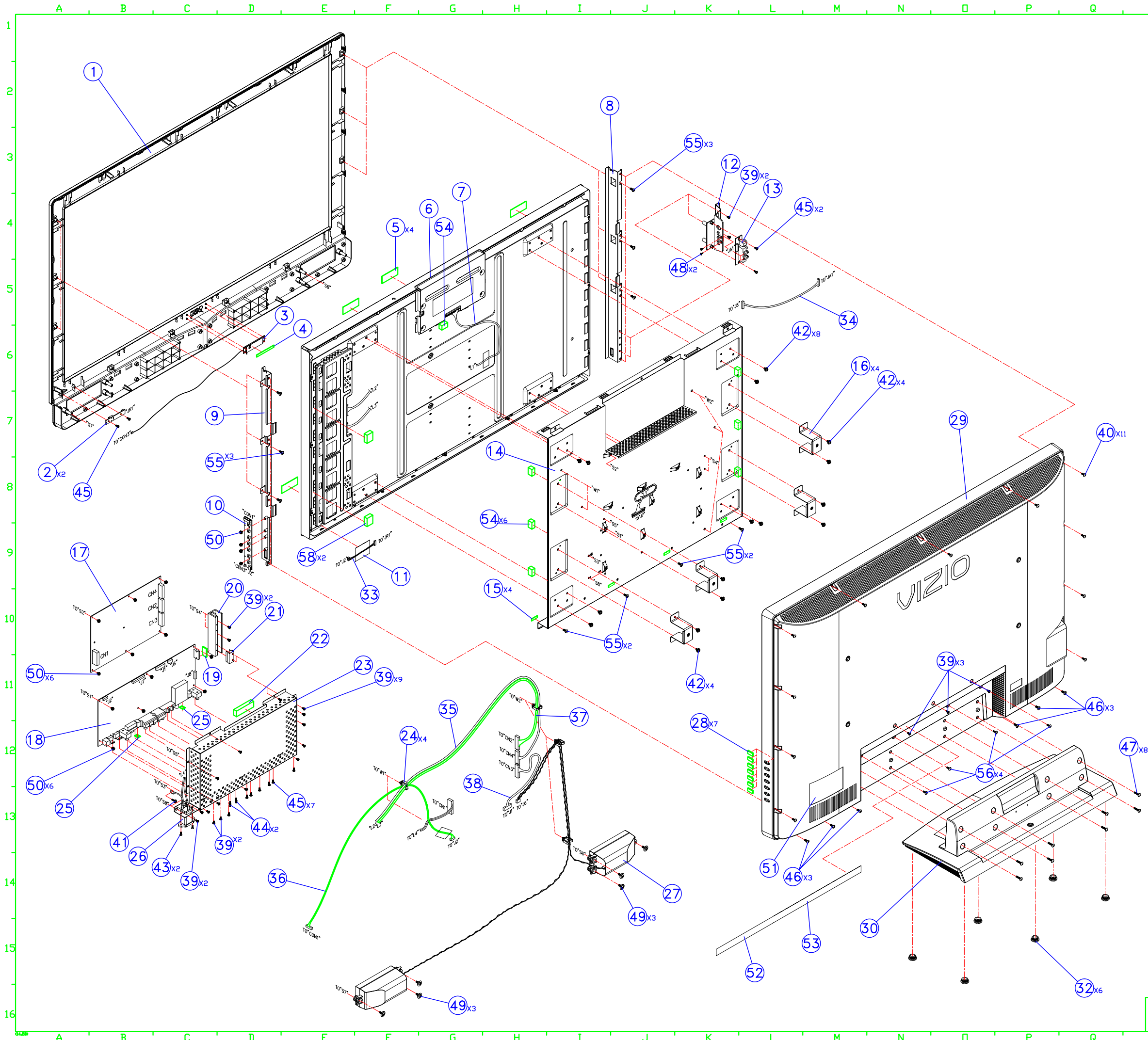
## 2. POWER BD ASS'Y REMOVAL

- 1) Remove the connector ⑨ (CN2) ⑧ (CN4) of the inverter cable.
- 2) Remove the connector ⑩ (CN3) of the power cable.
- 3) Remove six screws ⑫ from Power BD ASS'Y .
- 4) Separate the Power BD ASS'Y .

## 3. MAIN BD ASS'Y REMOVAL

- 2) Remove the connector ⑬ (J6) of the speaker cable.
- 3) Remove the connector ⑭ (J1) of the Power cable.
- 4) Remove the connector ⑮ (J7) of the LVDS cable.
- 5) Remove the connector ⑯ (J2) of the Display cable.
- 6) Remove the connector ⑰ (J8) of the connector cable.
- 6) Remove two screws ⑲ from Heat sink.
- 7) Remove six screws ⑱ from MAIN BD .
- 8) Separate the MAIN BD .





ITEM	DESCRIPTION	QTY
1	FRONT BEZEL (VS42L)ASS'Y	1
2	IR BD ASS'Y VX32 HDTV	1
3	LED BACKLIGHT 18*50*2.7 800mm LP1063-S545(BLK)LF	1
4	MYLAR (L60*W6*0.8t)	1
5	SPONGE (22.0L*55.0W*0.6t)	4
6	LCD MODULE 42.0" TFT T420HW01 V2(AUT)	1
7	WH FI-RE51HL-P240430 20276#30 330mm+碳膜材	1
8	PANEL BKT_L (SECC T=1.0)	1
9	PANEL BKT_R (SECC T=1.0)	1
10	DISPLAY BD ASS'Y VU42L	1
11	SHIELDING AL. TAPE (50.0*40.0)	2
12	SIDE JACK PLATE	1
13	CONNECTOR BD ASS'Y VX32L HDTV	1
14	CHASSIS (VS42L FHDTV10A)	1
15	SPONGE (22.0L*6.0W*6.0t)	4
16	WALL MOUNT SUPPORT (VX37L HDTV)	4
17	POWER BD ASS'Y 283W DPS-283 BP LF	1
18	MAIN BD ASS'Y VS42L FHDTV 10A	1
19	HEATPATH (25x14mm)	1
20	HEAT SINK (VX37L HDTV)	1
21	HEAT SINK FIX MTEAL (TM-30A)	1
22	GASKET BLOCK (10W*17H*60L)	1
23	MAIN SHIELDING (VU42L FHDTV10A)(SECC T=0.8)	1
24	WIRE SADDLE (CH-14)	4
25	GASKET BLOCK(12L*10W*2.5Hmm)HOLE6φ	2
26	AC INLET +VHR5P 1617#22 270mm 1015#18 115mm	1
27	SPK BOX 10W 8ohm(155*56*55) 1200/650mm (L,R) LF	1
28	CR SPONGE(17*8mm*3.0t)	7
29	REAR COVER (VW42L)(VX42L)ASS'Y	1
30	BASE (VW42L)(VX42L)	1
31	SPACER SUPPORT MC-7	3
32	BASE FOOT (TM-32V)	6
33	WH A2001H02-4P/A2001H02-4P 1061#26 140mm	1
34	WH A2001H02-12P/A2001H02-12P 1061#26 300mm	1
35	WH A2001H02-14P/A2543H00-13P 1007#24 800mm	1
36	WH A1251H02-10P/A1251H02-10P 1571#28 800mm	1
37	WH A2543H00-13P-2001H02-12P 1007#24 800mm	1
38	WH A2543H00-15P/A2001H02-13P 1007#24 250mm	1
39	MAC. SCREW-MB M3.0*6.0L,Ni/BLK-Ni	21
40	MAC. SCREW-MB M4.0*8.0L,Ni/BLK-Ni	11
41	MAC. SCREW-MBGW M4.0*6.0L,Ni	1
42	MAC. SCREW-MPSWF M4.0*6.0L,Ni	16
43	MAC.SCREW-MF M3.0*8.0L,Ni	2
44	MAC. SCREW-MHSW #4-40*8.0L,Ni	2
45	TAP. SCREW-TB #3.0*8.0L,Ni	11
46	TAP. SCREW-TP #4.0*10.0L, BLK-Ni	6
47	TAP. SCREW-TP #4.0*16.0L, BLK-Ni	8
48	TAP. SCREW-MF M3.0*9.0L,Ni/BLK-Ni	2
49	TAP. SCREW-TRF #4.0*12.0L,Ni	6
50	SCREW PHW M3-0.5*6.1 W=7.8 NYLOK	16
51	B/C LBL VIZIO VS42L FHDTV 10A	1
52	REAR PLATE VIZIO VS42L FHDTV10A	1
53	TAP.SCREW-TP#4.0*8.0L,Ni	10
54	GASKET BLOCK(20.0*13.0*20mm)	7

UNLESS OTHERWISE NOTED

ISSN: Jessie Yu 01/07/08

CHK: [Signature]

XX = 40.0

X = 40.0

ANG = 45/2°

DESCRIPTION

THIRD ANGLE PROJECTION

SCALE: Full

9642-8501-4143/-7143

PART NO.

MODEL No.

VIZIO VS42L FHDTV 10A -AUO

42" CASE ASS'Y

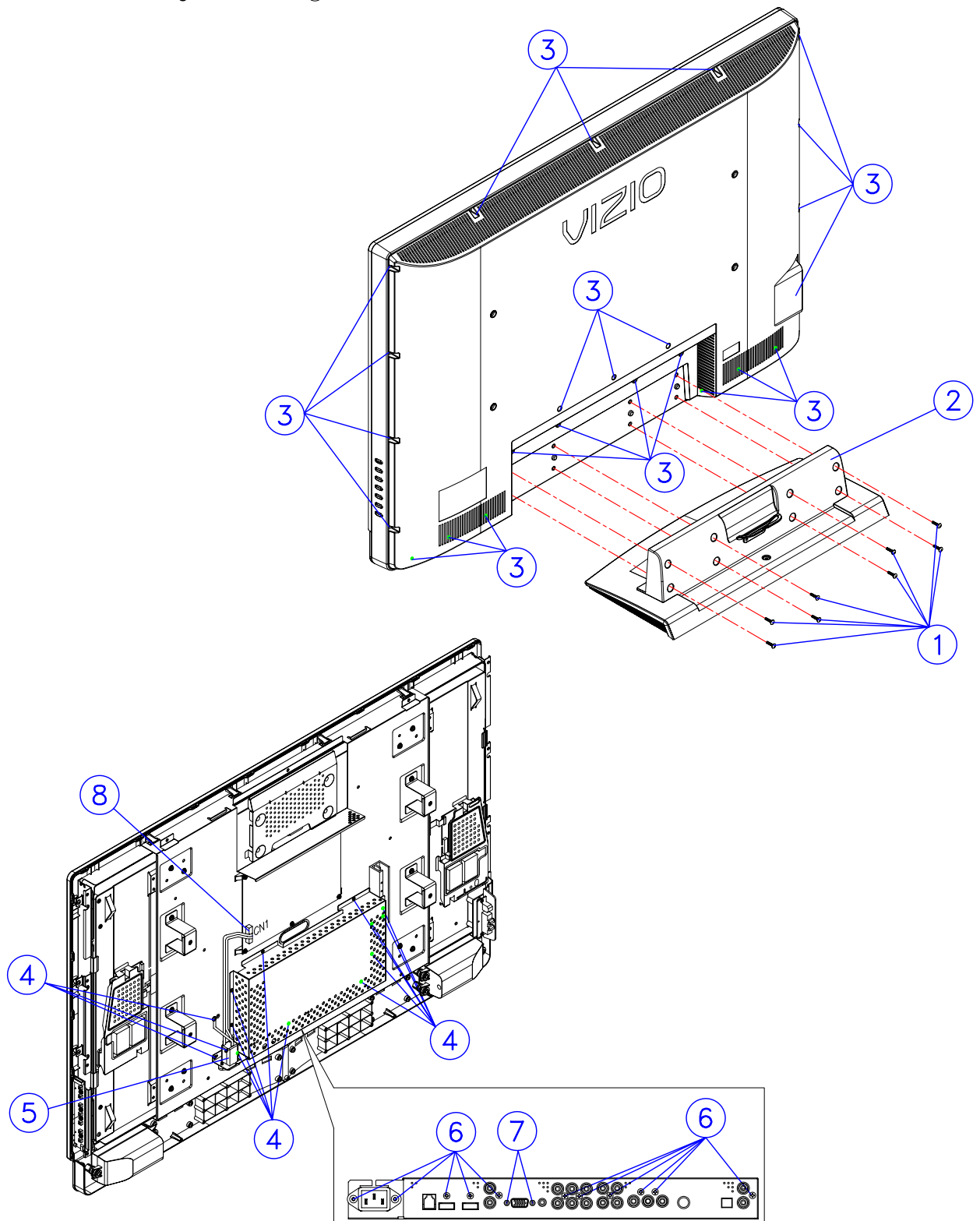
REV. 0

SHEET 1 of 1

## 1. REAR COVER ASS'Y REMOVAL

*Note: Spread a mat underneath to avoid damaging the TV surface.*

- 1) Remove eight screws ① from Base Ass'y ②.
- 2) Separate the Base Ass'y ②.
- 3) Remove twenty-four screws ③ from rear cover.
- 4) Separate the rear cover.
- 5) Remove fourteen screws ④, eleven screws ⑥, and two hexagon screws ⑦ from Main Shielding.
- 6) Remove the connector ⑧ (CN1) of the AC IN cable.
- 7) Separate the Main Shielding and AC Inlet ⑤.

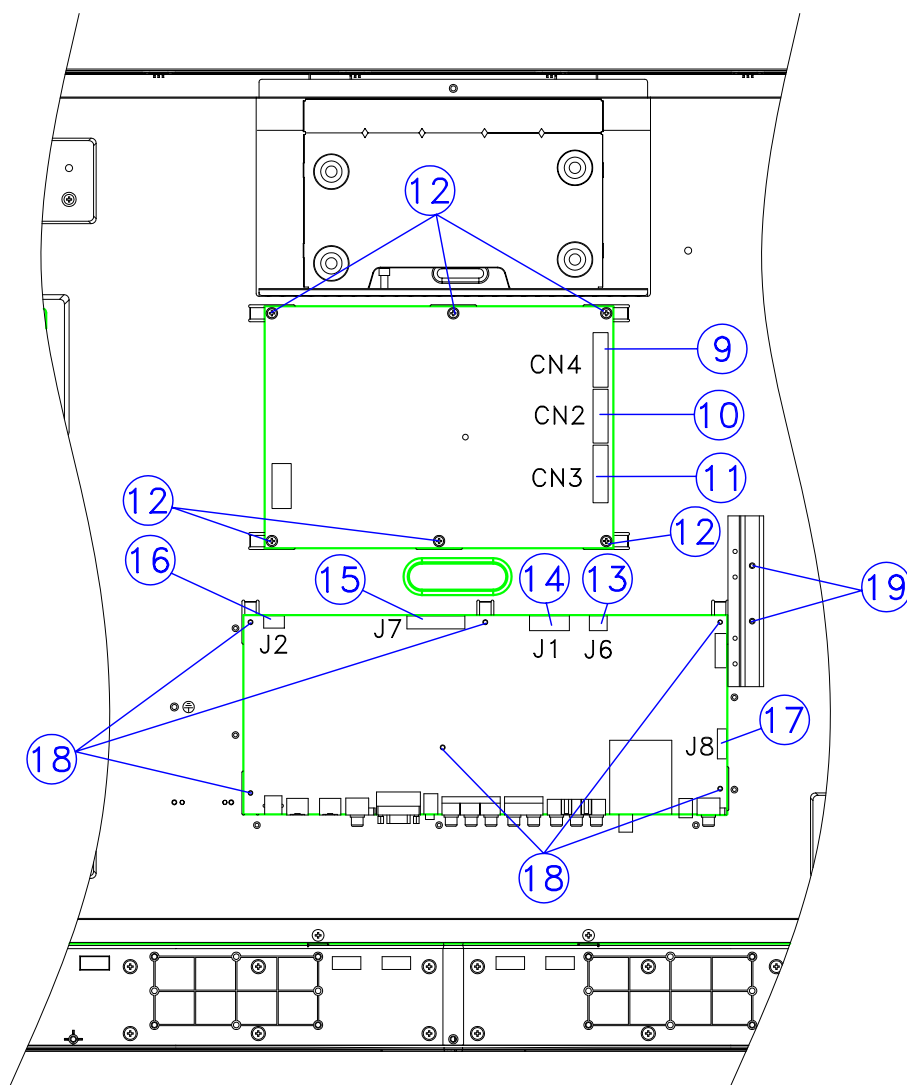


## 2. POWER BD ASS'Y REMOVAL

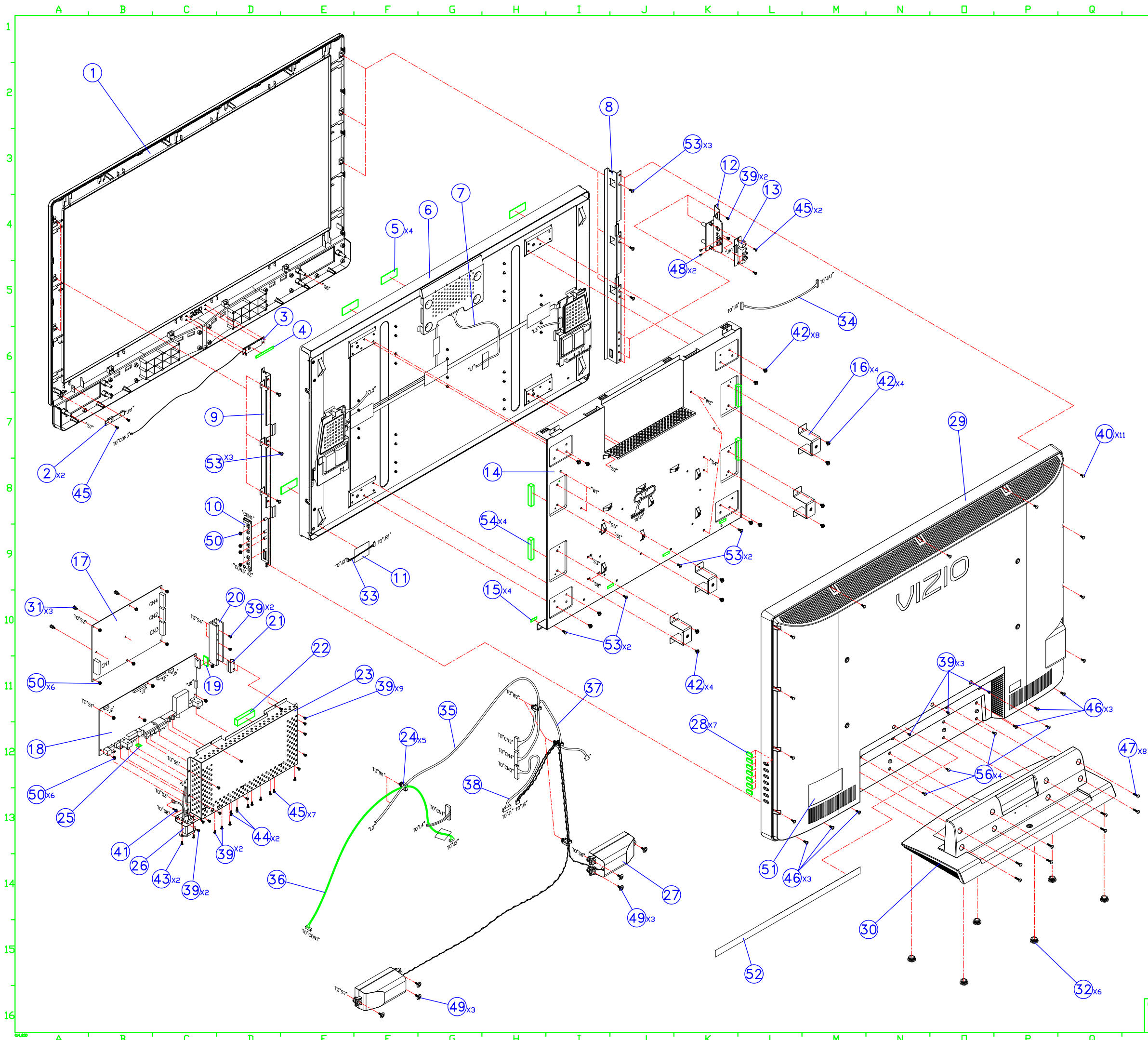
- 1) Remove the connector ⑨ (CN2) ⑧ (CN4) of the inverter cable.
- 2) Remove the connector ⑩ (CN3) of the power cable.
- 3) Remove six screws ⑫ from Power BD ASS'Y .
- 4) Separate the Power BD ASS'Y .

## 3. MAIN BD ASS'Y REMOVAL

- 2) Remove the connector ⑬ (J6) of the speaker cable.
- 3) Remove the connector ⑭ (J1) of the Power cable.
- 4) Remove the connector ⑮ (J7) of the LVDS cable.
- 5) Remove the connector ⑯ (J2) of the Display cable.
- 6) Remove the connector ⑰ (J8) of the connector cable.
- 6) Remove two screws ⑲ from Heat sink.
- 7) Remove six screws ⑱ from MAIN BD .
- 8) Separate the MAIN BD .







ITEM	DESCRIPTION	QTY
1	FRONT BEZEL (VS42L)ASS'Y	1
2	IR BD ASS'Y VX32 HDTV	1
3	LED BACKLIGHT 18*50*2.7 800mm LP1063-S545(BLK)LF	1
4	MYLAR (L60*W6*0.8t)	1
5	SPONGE (22.0L*55.0W*0.6t)	4
6	LCD MODULE 42.0" LC420WXX-XXXX(LG.PHILIPS)	1
7	WH FI-RE51HL-P240430 20276#30 330mm+吸音材	1
8	PANEL BKT_L (SECC T=1.0)	1
9	PANEL BKT_R (SECC T=1.0)	1
10	DISPLAY BD ASS'Y VU42L	1
11	SHIELDING AL. TAPE (50.0*40.0)	2
12	SIDE JACK PLATE (VW42L/VX42L_LPL)	1
13	CONNECTOR BD ASS'Y VX32L HDTV	1
14	CHASSIS (VX42L HDTV10A_LPL)(SECC T=0.8)	1
15	SPONGE (22.0L*6.0W*6.0t)	4
16	WALL MOUNT SUPPORT (VX37L HDTV)	4
17	POWER BD ASS'Y 283W DPS-283 BP LF	1
18	MAIN BD ASS'Y VW42L/VX42L	1
19	HEATPATH (25x14mm)	1
20	HEAT SINK (VX37L HDTV)	1
21	HEAT SINK FIX MTEAL (TM-30A)	1
22	GASKET BLOCK (10W*17H*60L)	1
23	MAIN SHIELDING (VU42L FHDTV10A)(SECC T=0.8)	1
24	WIRE SADDLE (CH-14)	5
25	GASKET BLOCK(12L*10W*2.5Hmm)HOLE6ø	2
26	AC INLET +VHR5P 1617#22 270mm 1015#18 115mm	1
27	SPK BOX 10W 8ohm(155*56*55) 1200/650mm (L,R) LF	1
28	CR SPONGE(17*8mm*3.0t)	7
29	REAR COVER (VW42L)(VX42L)ASS'Y	1
30	BASE (VW42L)(VX42L)	1
31	SPACER SUPPORT MC-7	3
32	BASE FOOT (TM-32V)	6
33	WH A2001H02-4P/A2001H02-4P 1061#26 140mm	1
34	WH A2001H02-12P/A2001H02-12P 1061#26 300mm	1
35	WH A2001H02-14P/A2543H00-13P 1007#24 800mm	1
36	WH A1251H02-10P/A1251H02-10P 1571#28 800mm	1
37	WH A2543H00-13P-2001H00-12P 1007#24 500mm	1
38	WH A2543H00-15P/A2001H02-13P 1007#24 250mm	1
39	MAC. SCREW-MB M3.0*6.0L,Ni/BLK-Ni	23
40	MAC. SCREW-MB M4.0*8.0L,Ni/BLK-Ni	11
41	MAC. SCREW-MBGW M4.0*6.0L,Ni	1
42	MAC. SCREW-MPSWF M4.0*6.0L,Ni	16
43	MAC.SCREW-MF M3.0*8.0L,Ni	2
44	MAC. SCREW-MHSW #4-40*8.0L,Ni	2
45	TAP. SCREW-TB #3.0*8.0L,Ni	11
46	TAP. SCREW-TP #4.0*10.0L, BLK-Ni	6
47	TAP. SCREW-TP #4.0*16.0L, BLK-Ni	8
48	TAP. SCREW-MF M3.0*9.0L,Ni/BLK-Ni	2
49	TAP. SCREW-TRF #4.0*12.0L,Ni	6
50	SCREW PHW M3-0.5*6.1 W=7.8 NYLOK	16
51	B/C LBL VIZIO VS42L FHDTV 10A	1
52	REAR PLATE_L VIZIO VW42/VX42 HDTV10A	1
53	TAP.SCREW-TP#4.0*8.0L,Ni	10
54	GASKET BLOCK(10.0*10.5*60mm)	4

VIZIO VS42L HDTV10A-LPL

9642-8501-4053/-7053

DESCRIPTION

PART NO.

**AMTRON**  
TECHNOLOGY Co., LTD.

THIRD ANGLE PROJECTION

MODEL No.

VIZIO VS42L  
HDTV10A-LPL

DESIGNED BY

Jessie Yu

DATE

12/26/07

DRAWN BY

CHC

MATERIALS

\*\*\*\*\*

DWG. NAME

42" CASE ASS'Y

Q'TY

1

SIZE

AS

SCALE

Full

UNIT

MM

DWG. No.

VIZIO-VS42L  
HDTV10A-LPL-CL.DWG

REV.

0

SHEET

1 of 1

UNLESS OTHERWISE NOTED

JX = 0.010  
X = 0.02  
ANG = 0.02°